

Appendix A
Public Notification that a potential event was occurring
(40 CFR §50.14(c)(1)(i))

FIGURE A-1
NATIONAL WEATHER SERVICE PUBLIC ZONES

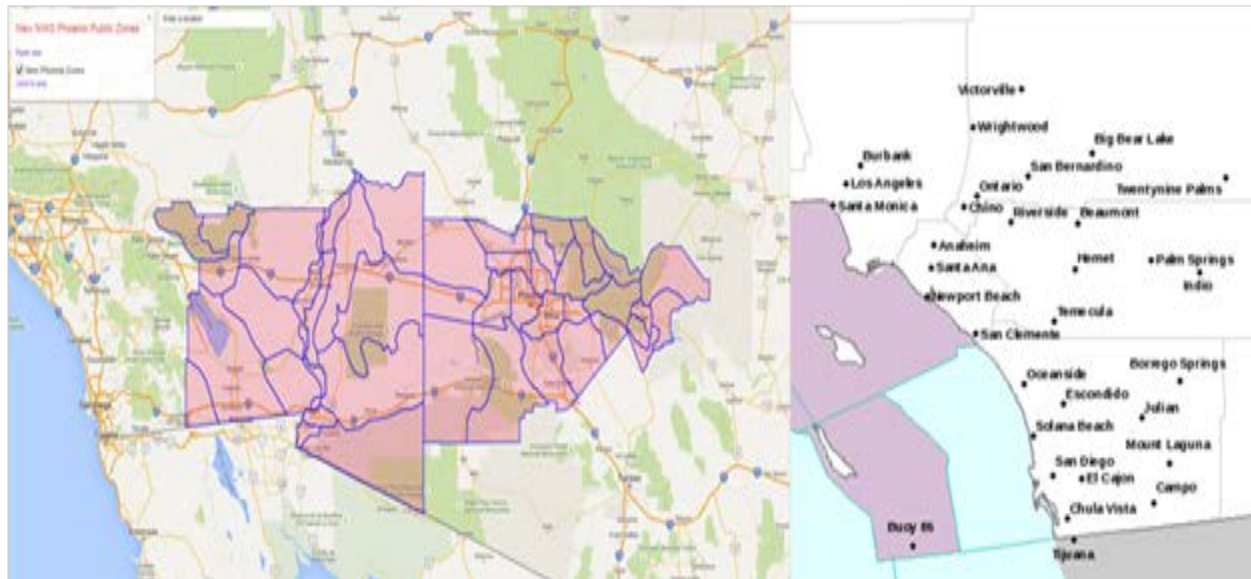


Fig A-1: Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

FIGURE A-2

AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

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 FXUS66 KSGX 110953
 AFDSGX

AREA FORECAST DISCUSSION
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 300 AM PDT FRI APR 11 2014

.SYNOPSIS...

PARTLY CLOUDY SKIES TODAY WITH SOME COASTAL FOG THIS MORNING. A LOW PRESSURE TROUGH WILL MOVE THROUGH SOUTHERN CALIFORNIA TODAY AND SATURDAY...BRINGING COOLER WEATHER WITH A SLIGHT CHANCE OF SHOWERS OR PATCHY DRIZZLE TONIGHT. FAIR AND WARMER SUNDAY AND MONDAY WITH SOME NIGHT AND MORNING COASTAL CLOUDS. ANOTHER TROUGH WILL BRING MORE CLOUDS...COOLER AND BREEZY WEATHER FOR THE MIDDLE OF NEXT WEEK.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

FAIRLY THICK HIGH CLOUDS WERE EXITING EAST REVEALING RATHER SCATTERED LOW CLOUDS UNDERNEATH THIS MORNING. THE LOW CLOUDS ARE QUITE LOW...AT AROUND 500 FEET OR BELOW...AND VISIBILITIES AT SOME SPOTS WERE 3-5 MILES. A BREAK IN THE HIGHER CLOUDS WILL GIVE US MORE SUNSHINE TODAY...BUT IT WILL BE A COOLER DAY WITH A LOW PRESSURE TROUGH APPROACHING SOUTHERN CALIFORNIA. THIS WILL INCREASE OUR ONSHORE FLOW AND DEEPEN OUR MARINE LAYER...AND BOOST WINDS IN THE MOUNTAINS AND DESERTS. AS THE TROUGH MOVES OVERHEAD TONIGHT INTO SATURDAY MORNING...JUST ENOUGH MOISTURE IN THE CLOUDS COULD PRODUCE A SPRINKLE OR A LIGHT SHOWER. THE MARINE LAYER WILL DOMINATE THE COASTAL BASIN SATURDAY WITH A COOLER AIR MASS DESPITE MORE SUNSHINE ELSEWHERE. MAX TEMPS IN THE COASTAL BASIN WILL STRUGGLE TO BEAT 70 SATURDAY. WINDS WILL BE LOCALLY GUSTY MAINLY IN THE DESERTS IN THE LEE OF MOUNTAIN GAPS. GUSTS COULD TOP 45 MPH AT THE USUAL TOP SPOTS. HIGH PRESSURE ALOFT WILL REBUILD SUNDAY AND MONDAY AND TEMPS WILL REBOUND WHILE THE MARINE LAYER SHRINKS. A NEW DEVELOPMENT THAT ALL MODELS SEEM TO BE AGREEING ON IS A MILD OFFSHORE PUSH MONDAY MORNING...TIMED WITH A NICE AMPLIFICATION OF THE RIDGE. TEMPS IN THE COASTAL BASIN WILL BUMP UPWARD QUITE A LOT ON MONDAY WHILE HUMIDITY WILL FALL...BUT ONLY BRIEFLY. ONSHORE FLOW WILL REASSERT ITSELF AND RECONSTRUCT THE MARINE LAYER AND ATTENDANT COASTAL CLOUDS TUESDAY. A SHORTWAVE TROUGH HAS BEEN FEATURED BY ALL THE MODELS TO MOVE THROUGH CALIFORNIA NEXT WEDNESDAY AND THURSDAY. THIS TROUGH HAS BEEN WASHED OUT GREATLY BY RECENT RUNS OF THE EURO AND CANADIAN MODELS...BUT THE GFS KEEPS A FAIRLY STRONG SYSTEM MOVING THROUGH CENTRAL CALIFORNIA. SOME COOLER AND BREEZY WEATHER WITH AN EXPANSIVE MARINE LAYER IS THE BEST FORECAST FOR THE MIDDLE OF NEXT WEEK.

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404111000>

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FIGURE A-2 AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

.AVIATION...

100913Z...COAST/VALLEYS...PATCHY DENSE FOG/VERY LOW STRATUS MAY FORM WITHIN 3-5 SM OF THE COAST THROUGH 1500 UTC...WITH VIS AOB 1/2SM...BASES 200-300 FT MSL AND TOPS 300-500 FT MSL. CONFIDENCE IN FOG OCCURRENCE IS MODERATE FOR KSNA AND KCRQ...AND LOW-TO-MODERATE FOR KSN. ELSEWHERE...UNRESTRICTED VIS AND SCT-BKN CLDS AOA 15000 FT MSL. FOG WILL CLEAR OUT 1500-1700 UTC. 1700-12/0000 UTC...UNRESTRICTED VIS AND SCT-BKN CLDS AOA 15000 FT MSL. 12/0000-0400 UTC...STRATUS MOVING INLAND 15 SM...WITH BASES/TOPS OF 500-700 FT MSL/1000-1200 FT MSL. 12/0400-1200 UTC...STRATUS MOVING 35-45 SM INLAND WITH BASES/TOPS RISING TO 1000-1500 FT MSL/2000-2500 FT MSL. 12/1200-1500 UTC...STRATUS WILL BE 35-50 SM INLAND...WITH BASES/TOPS NOW UP TO 1500-2000 FT MSL/3000 FT MSL.

MTNS/DESERTS...SCT-BKN CLDS AOA 15000 FT MSL THROUGH 12/0300 UTC...BECOMING FEW-SCT AFTER 12/0300 UTC. UNRESTRICTED VIS WILL CONTINUE THROUGH SATURDAY MORNING. AFTER 12/0300 UTC...W TO SW WINDS 20-30 KT WITH GUSTS TO 45 KT ALONG RIDGE-TOPS...THROUGH PASSES/CANYONS...ALONG DESERT SLOPES AND INTO FAVORED DESERT AREAS WILL CREATE MOD-STG UDDFS/LLWS OVER AND E OR NE OF THE MTNS.

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.MARINE...

AREAS OF DENSE FOG ARE LIKELY TO CONTINUE OVER THE COASTAL WATERS THROUGH MID-MORNING TODAY AS THE MARINE LAYER WILL REMAIN SHALLOW. A MARINE WEATHER STATEMENT REMAINS POSTED THROUGH MID-MORNING FOR THE FOG THREAT. FOG IS UNLIKELY TO OCCUR TONIGHT AS THE MARINE LAYER WILL DEEPEN SIGNIFICANTLY WITH THE UPPER LEVEL TROUGH MOVING THROUGH.

WEST TO NORTHWEST WINDS COULD STRENGTHEN OVER THE COASTAL WATERS LATE NEXT TUESDAY THROUGH THURSDAY AS THE GFS SHOWS A STRONG TROUGH MOVING THROUGH JUST NORTH OF THE AREA. THIS WOULD BRING 25 TO 30 KT WIND GUSTS AND STEEP SEAS...WHICH WOULD BE HAZARDOUS TO SMALL CRAFT. HOWEVER...CURRENT CONFIDENCE IN THIS OCCURRING IS LOW AS THE ECMWF MODEL SHOWS A MUCH WEAKER TROUGH MOVING THROUGH...BRINGING SURFACE WINDS OF ONLY 10-15 KT.

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.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...NONE.

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PUBLIC...MM

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404111000>

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Fig A-2: An Area Forecast Discussion issued by the San Diego NWS office at 0200 am PST (0300 am PDT) on Friday, April 11, 2014. Windy conditions within the deserts with gusts up to 45 mph. Earliest discussion of the moving trough. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-3
AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

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FXUS66 KSGX 111644
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
945 AM PDT FRI APR 11 2014

.SYNOPSIS...

UPPER LEVEL LOW WILL APPROACH THE SOUTHERN CALIFORNIA COAST TODAY...BEFORE MOVING INLAND LATE TONIGHT AND ON SATURDAY. THEREFORE...EXPECT A FEW HIGH CLOUDS AT TIMES...WITH INCREASING ONSHORE FLOW...COOLER CONDITIONS...AND A FEW SPRINKLES OR LIGHT SHOWERS POSSIBLE MAINLY OVER THE MOUNTAINS. THERE IS A CHANCE OF SOME DRIZZLE TONIGHT WEST OF THE MOUNTAINS...AS THE MARINE LAYER DEEPENS TOO. GUSTY WEST WINDS WILL ALSO DEVELOP IN THE MOUNTAINS AND DESERTS THESE DAYS. DRY AND WARMER CONDITIONS WILL RETURN FOR SUNDAY AND MONDAY...WITH SOME WEAK TO LOCALLY MODERATE OFFSHORE WINDS POSSIBLE BY MONDAY MORNING. ANOTHER TROUGH WILL THEN BRING MORE CLOUDS...ALONG WITH COOLER AND BREEZY WEATHER FOR THE MIDDLE OF NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

WATER VAPOR IMAGERY SHOWS A WEAK UPPER LEVEL DISTURBANCE THAT MOVED ACROSS SOUTHERN CALIFORNIA OVERNIGHT IS NOW LIFTING TO OUR NORTHEAST. AS A RESULT...JUST A FEW HIGH CLOUDS ARE LINGERING OVER THE MOUNTAINS AND DESERTS THIS MORNING. LOOKING AT THESE ALTOCUMULUS CASTELLANUS CLOUDS...THERE ALSO APPEARS TO BE SOME UPPER LEVEL INSTABILITY...SO CANNOT RULE OUT A STRAY SHOWER OR TWO THIS AFTERNOON OVER THE MOUNTAINS. HOWEVER...THE 12Z KNXX SOUNDING SHOWS VERY DRY AIR BELOW 600 MBS...SO ANY SHOWERS THAT DO REACH THE SURFACE WILL LIKELY BE LIGHT. MEANWHILE...SOME PATCHY LOW CLOUDS AND FOG WERE ABLE TO REFORM ALONG THE IMMEDIATE COAST THIS MORNING...ONCE THE HIGH CLOUDS CLEARED...BUT VISIBLE IMAGERY SHOWS THESE CLOUDS DISSIPATING RATHER QUICKLY. THEREFORE...EXPECT TODAY TO BE A RELATIVELY NICE DAY ACROSS THE REGION...WITH JUST A FEW HIGH CLOUDS POSSIBLE AT TIMES AND COOLER CONDITIONS PREVAILING. THE ONSHORE FLOW WILL ALSO INCREASE ACROSS THE REGION...AS THE UPPER LEVEL LOW NEAR 32 NORTH AND 127 WEST APPROACHES THE SOUTHERN CALIFORNIA COAST. THEREFORE...EXPECT SOME LOCALLY GUSTY WEST WINDS TO DEVELOP IN THE MOUNTAINS AND DESERTS THIS AFTERNOON.

AS THIS UPPER LEVEL LOW MOVES INLAND LATE TONIGHT AND ON SATURDAY...THE MARINE LAYER WILL RETURN AND DEEPEN WEST OF THE MOUNTAINS. THEREFORE...THINK THAT SOME DRIZZLE WILL BE POSSIBLE TONIGHT. OTHERWISE...THE MAIN STORY WILL BE WITH THE GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS ON SATURDAY. THE MODELS SHOW THE

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404111645>

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FIGURE A-3 AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

ONSHORE GRADIENTS PEAKING ON SATURDAY AFTERNOON...AROUND 10 MBS BETWEEN SAN DIEGO AND DAGGETT AND AROUND 8 MBS BETWEEN SAN DIEGO AND THERMAL, HOWEVER...THE UPPER LEVEL SUPPORT IS MARGINAL AT BEST...RUNNING BETWEEN 30 AND 35 KTS. THEREFORE...AM NOT ANTICIPATING ANY WIND PRODUCTS AT THIS TIME...BUT SOME OF THE FAVORED SPOTS MAY SEE AN ISOLATED GUST TO AROUND 50 MPH AT TIMES. THERE ALSO APPEARS TO BE A SECONDARY WIND PEAK ON SUNDAY AFTERNOON...AS ANOTHER WEAK DISTURBANCE DIVES SOUTH ACROSS THE GREAT BASIN. FOR THIS REASON...JUST EXPECT SLIGHTLY WARMER CONDITIONS ON SUNDAY.

HIGH PRESSURE WILL THEN TEMPORARILY BUILD BACK ACROSS SOUTHERN CALIFORNIA SUNDAY NIGHT AND MONDAY...WITH DRY AND WARMER CONDITIONS DEVELOPING. THE MODELS ARE HINTING AT SOME WEAK TO LOCALLY MODERATE OFFSHORE WINDS POSSIBLE AS WELL BY MONDAY MORNING...AND AT LEAST THE 12Z NAM IS SHOWING SOME DECENT UPPER LEVEL SUPPORT EVEN THOUGH THE SURFACE GRADIENT IS NOT THAT STRONG. WILL HAVE TO WAIT AND SEE HOW THIS DEVELOPS OVER THE NEXT FEW RUNS.

OTHERWISE...COOLER CONDITIONS WILL THEN RETURN FOR THE REMAINDER OF THE WORK WEEK...AS A SERIES OF WEAK TROUGHS MOVE THROUGH THE WEST COAST. THIS WILL BRING THE RETURN OF THE MARINE LAYER TO THE COASTAL AREAS...WITH NIGHT AND MORNING LOW CLOUDS AND FOG POSSIBLE. THE ONSHORE FLOW WILL RETURN AS WELL...WITH PERIODS OF GUSTY WEST WINDS POSSIBLE IN THE MOUNTAINS AND DESERTS.

&&

.AVIATION...

111530Z...COAST/VALLEYS...UNRESTRICTED VIS AND SCT-BKN CLDS AOA 15000 FT MSL THROUGH THIS AFTERNOON. STRATUS REFORMING TO 15 SM INLAND BETWEEN 12/02-06Z WITH BASES 500-700 FT MSL AND TOPS 1000-1200 FT MSL. STRATUS DEEPENING/LIFTING OVERNIGHT WITH BASES RISING TO 1000-1500 FT MSL AND TOPS TO 2000-2500 FT MSL...EXTENDING 35-45 SM INLAND BY EARLY SATURDAY MORNING. FURTHER LIFTING OF BASES/TOPS TO 1500-2000 FT MSL/3000 FT MSL EXPECTED BY SUNRISE. CLOUDS BECOMING SCT AFTER 12/18Z.

MTNS/DESERTS...SCT-BKN CLDS AOA 15000 FT MSL...BECOMING FEW-SCT AFTER 12/0300 UTC. UNRESTRICTED VIS WILL CONTINUE THROUGH SATURDAY MORNING. THIS EVENING THROUGH TONIGHT...W TO SW WINDS INCREASING TO 20-30 KT WITH GUSTS TO 45 KT ALONG RIDGE-TOPS...THROUGH PASSES/CANYONS...ALONG DESERT SLOPES AND INTO FAVORED DESERT AREAS THIS WILL CREATE MOD-STG UDDFS/LLWS OVER AND E/NE OF THE MTNS...AS WELL AS AREAS OF BLOWING DUST/SAND ON THE DESERT FLOOR...REDUCING VISIBILITY AT TIMES. WINDS WILL RELAX SATURDAY BEFORE INCREASING AGAIN SATURDAY EVENING THROUGH SUNDAY MORNING.

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.MARINE...

FOG IS UNLIKELY TO OCCUR TONIGHT AS THE MARINE LAYER WILL DEEPEN SIGNIFICANTLY WITH THE UPPER LEVEL TROUGH MOVING THROUGH.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404111645>

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Fig A-3: An Area Forecast Discussion issued by the San Diego NWS office at 845 am PST (0945 am PDT) on Friday, April 11, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-4
AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

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FXUS66 KSGX 112054
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
155 PM PDT FRI APR 11 2014

.SYNOPSIS...

UPPER LEVEL LOW WILL MOVE INLAND ACROSS SOUTHERN CALIFORNIA LATE TONIGHT AND DURING THE DAY ON SATURDAY. THEREFORE...EXPECT A FEW HIGH CLOUDS AT TIMES...WITH INCREASING ONSHORE FLOW...COOLER CONDITIONS...AND A FEW SPRINKLES OR LIGHT SHOWERS POSSIBLE MAINLY OVER THE MOUNTAINS. THERE IS ALSO A CHANCE OF SOME DRIZZLE TONIGHT WEST OF THE MOUNTAINS...AS THE MARINE LAYER DEEPENS TOO. GUSTY WEST WINDS WILL BE POSSIBLE IN THE MOUNTAINS AND DESERTS...INCREASING EVEN MORE FOR SATURDAY. DRY AND WARMER CONDITIONS WILL RETURN FOR MONDAY...WITH SOME WEAK TO LOCALLY MODERATE OFFSHORE WINDS POSSIBLE BY MONDAY MORNING. A SERIES OF SYSTEM WILL THEN BRING PERIODS OF HIGH CLOUDS NEXT WEEK...THE RETURN OF THE MARINE LAYER...COOLER CONDITIONS...AND MORE GUSTY WEST WINDS TO THE MOUNTAINS AND DESERTS.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

WATER VAPOR IMAGERY SHOWS AN UPPER LEVEL LOW APPROACHING THE SOUTHERN CALIFORNIA COAST THIS AFTERNOON...WITH DIVERGENT SOUTHWESTERLY FLOW ALOFT AHEAD OF THIS SYSTEM. AS A RESULT...THERE IS ENOUGH UPPER LEVEL INSTABILITY FOR SOME ALTOCUMULUS TO DEVELOP AS WELL AS A FEW VIRGA SHOWERS. SO FAR...NO MEASURABLE PRECIPITATION HAS BEEN REPORTED...BUT THE MOUNTAINS COULD SEE A FEW SPRINKLES OR LIGHT SHOWERS EVEN THROUGH TONIGHT. OTHERWISE...JUST EXPECT THE MARINE LAYER TO RETURN AREAS WEST OF THE MOUNTAINS LATER THIS EVENING...AND DEEPEN ENOUGH THAT SOME DRIZZLE MAY BE POSSIBLE ON SATURDAY MORNING. OTHERWISE...JUST EXPECT COOLER CONDITIONS TO CONTINUE THROUGH SATURDAY...AS THIS UPPER LEVEL LOW MOVES INLAND ACROSS SOUTHERN CALIFORNIA. THE OTHER MAIN STORY WITH THIS LOW WILL BE WITH THE INCREASING ONSHORE FLOW. AT THIS TIME...IT APPEARS THAT THE ONSHORE GRADIENTS WILL PEAK ON SATURDAY AFTERNOON...AROUND 10 MBS BETWEEN SAN DIEGO AND DAGGETT AND AROUND 8 MBS BETWEEN SAN DIEGO AND THERMAL. HOWEVER...THE UPPER LEVEL SUPPORT IS MARGINAL AT BEST...RUNNING BETWEEN 30 AND 35 KTS. THEREFORE...AM NOT

ANTICIPATING ANY WIND PRODUCTS AT THIS TIME...BUT SOME OF THE FAVORED SPOTS BELOW THE PASSES AND CANYONS MAY SEE AN ISOLATED GUST TO AROUND 50 MPH AT TIMES. THERE ALSO APPEARS TO BE A SECONDARY WIND PEAK ON SUNDAY AFTERNOON...AS ANOTHER WEAK DISTURBANCE DIVES SOUTH ACROSS THE GREAT BASIN. FOR THIS REASON...JUST EXPECT THE GUSTY CONDITIONS TO CONTINUE...WITH SLIGHTLY WARMER CONDITIONS PREVAILING.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404112055>

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FIGURE A-4 AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

HIGH PRESSURE WILL THEN TEMPORARILY BUILD BACK ACROSS SOUTHERN CALIFORNIA SUNDAY NIGHT AND MONDAY...WITH DRY AND WARMER CONDITIONS DEVELOPING. THE MODELS ARE ALSO HINTING AT AN OFFSHORE WIND EVENT DEVELOPING BY MONDAY MORNING...EVEN THOUGH THE STRENGTHS VARY QUITE A BIT BETWEEN THE MODELS. RIGHT NOW...THINK IT WILL RANGE BETWEEN A WEAK TO MODERATE EVENT...AND AT LEAST THE 12Z NAM IS SHOWING SOME DECENT UPPER LEVEL SUPPORT EVEN THOUGH THE SURFACE GRADIENT IS NOT THAT STRONG. WILL HAVE TO WAIT AND SEE HOW THIS DEVELOPS OVER THE NEXT FEW RUNS.

OTHERWISE...COOLER CONDITIONS WILL THEN RETURN FOR THE REMAINDER OF THE WORK WEEK...AS A SERIES OF WEAK TROUGHS MOVE THROUGH THE WEST COAST. THIS WILL BRING THE RETURN OF THE MARINE LAYER TO THE COASTAL AREAS...WITH NIGHT AND MORNING LOW CLOUDS AND FOG POSSIBLE. THE ONSHORE FLOW WILL RETURN AS WELL...WITH PERIODS OF GUSTY WEST WINDS POSSIBLE IN THE MOUNTAINS AND DESERTS.

&&

.AVIATION...

112030Z...COAST/VALLEYS...UNRESTRICTED VIS AND SCT-BKN CLDS AOA 15000 FT MSL THROUGH THIS AFTERNOON. STRATUS REFORMING TO 15 SM INLAND BETWEEN 12/02-06Z WITH BASES 500-700 FT MSL AND TOPS 1000-1200 FT MSL. STRATUS DEEPENING/LIFTING OVERNIGHT WITH BASES RISING TO 1000-1500 FT MSL AND TOPS TO 2000-2500 FT MSL...EXTENDING 35-45 SM INLAND BY EARLY SATURDAY MORNING. FURTHER LIFTING OF BASES/TOPS TO 1500-2000 FT MSL/3000 FT MSL EXPECTED BY SUNRISE. CLOUDS BECOMING SCT AFTER 12/18Z.

MTNS/DESERTS...SCT-BKN CLDS AOA 15000 FT MSL...BECOMING FEW-SCT AFTER 12/0300 UTC. UNRESTRICTED VIS WILL CONTINUE THROUGH SATURDAY MORNING. THIS EVENING THROUGH TONIGHT...W TO SW WINDS INCREASING TO 20-30 KT WITH GUSTS TO 45 KT ALONG RIDGE-TOPS...THROUGH PASSES/CANYONS...ALONG DESERT SLOPES AND INTO FAVORED DESERT AREAS THIS WILL CREATE MOD-STG UDDFS/LLWS OVER AND E/NE OF THE MTNS...AS WELL AS AREAS OF BLOWING DUST/SAND ON THE DESERT FLOOR...REDUCING VISIBILITY AT TIMES. WINDS WILL RELAX SATURDAY BEFORE INCREASING AGAIN SATURDAY EVENING THROUGH SUNDAY MORNING.

&&

.MARINE...

FOG IS UNLIKELY TO OCCUR TONIGHT AS THE MARINE LAYER WILL DEEPEN SIGNIFICANTLY WITH THE UPPER LEVEL TROUGH MOVING THROUGH.

WEST TO NORTHWEST WINDS COULD STRENGTHEN OVER THE COASTAL WATERS LATE NEXT TUESDAY THROUGH THURSDAY...POTENTIALLY ENOUGH TO BE HAZARDOUS TO SMALL CRAFT. HOWEVER...CURRENT MODELS DISAGREE TOO MUCH TO PUT MUCH CONFIDENCE IN THIS AT THE MOMENT...BUT WILL CONTINUE TO MONITOR.

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404112055>

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Fig A-4: An Area Forecast Discussion issued by the San Diego NWS office at 1255 pm PST (155 pm PDT) on Friday, April 11, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-5 AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

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 FXUS66 KSGX 120400
 AFDSGX

AREA FORECAST DISCUSSION
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 900 PM PDT FRI APR 11 2014

.SYNOPSIS...

COOLER WITH A DEEPER MARINE LAYER AND GUSTY WINDS IN THE MOUNTAINS
 AND DESERTS THROUGH SUNDAY AS AN UPPER LEVEL LOW MOVES ACROSS THE
 REGION. WARMER MONDAY AND TUESDAY AS WEAK RIDGING BUILDS
 ALOFT...THEN COOLER MIDWEEK AS A SERIES OF WEAK TROUGHS MOVE INLAND
 ACROSS THE WEST COAST.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
 SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
 COUNTIES...

LOW CLOUDS ARE MOVING INTO THE COASTAL AREAS THIS EVENING AND HIGH
 CLOUDS CONTINUE TO STREAM ACROSS FAR SOUTHERN SAN DIEGO COUNTY.
 OTHERWISE SKIES WERE CLEAR. THE MARINE LAYER WILL RAPIDLY DEEPEN
 TONIGHT WITH LOW CLOUDS AND FOG SPREADING INTO THE INLAND VALLEYS.
 PATCHY DRIZZLE IS POSSIBLE WEST OF THE MOUNTAINS LATE TONIGHT INTO
 SATURDAY MORNING. PATCHY LOW CLOUDS WILL LINGER AT THE BEACHES
 THROUGH THE AFTERNOON.

WIDESPREAD COOLING WILL TAKE PLACE SATURDAY AS AN UPPER LEVEL LOW
 MOVES ACROSS SOUTHERN CA. INCREASING ONSHORE FLOW WILL GENERATE
 AREAS OF GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS SATURDAY
 AFTERNOON AND EVENING. ISOLATED GUSTS IN EXCESS OF 50 MPH ARE
 POSSIBLE IN THE FAR NORTHERN COACHELLA VALLEY...OTHERWISE GUSTS WILL
 MAINLY BE IN THE 35 TO 45 MPH RANGE. MINOR WARMING IN THE MOUNTAINS
 AND DESERTS SUNDAY WHILE AREAS WEST OF THE MOUNTAINS REMAIN COOL
 WITH A DEEP MARINE LAYER IN PLACE.

AN UPPER LEVEL RIDGE BUILDS OVER THE AREA LATE SUNDAY INTO MONDAY.
 NOCTURNAL LOW CLOUDS AND FOG WILL BE MUCH LESS WIDESPREAD...ONLY
 REACHING THE WESTERN VALLEYS SUNDAY NIGHT. SURFACE HIGH PRESSURE
 WILL BUILD OVER THE GREAT BASIN EARLY MONDAY AS A SHORT WAVE TROUGH
 DIGS SOUTH THROUGH THE INTERIOR WEST. RECENT RUNS OF THE NAM AND EC
 HAVE REALLY RAMPED UP THE STRENGTH OF THE OFFSHORE FLOW ON
 MONDAY...WILL WAIT TO SEE IF THEY HOLD ONTO THIS IDEA BEFORE JUMPING
 ON IT. AT THIS WOULD LEAN MORE TOWARDS A WEAK TO LOCALLY MODERATE
 OFFSHORE WIND EVENT MONDAY MORNING. ASIDE FROM THE WINDS...MONDAY
 WILL BE MUCH WARMER AND DRIER...ESPECIALLY WEST OF THE MOUNTAINS.
 MARINE LAYER LOW CLOUDS MAY FINALLY DISSIPATE...AT LEAST FOR A DAY
 OR SO.

MINOR COOLING TUESDAY NEAR THE COAST AS ONSHORE FLOW RETURNS...WITH

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404120400>

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FIGURE A-5 AREA FORECAST DISCUSSION APRIL 11, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

CONTINUED WARM AND DRY CONDITIONS INLAND. A SERIES OF WEAK TROUGHS MOVING ACROSS THE WEST COAST WILL CONTINUE THE COOLING TREND THROUGH AT LEAST THURSDAY WITH MARINE LAYER LOW CLOUDS RETURNING TO THE COASTAL AREAS AND FAR WESTERN VALLEYS. PERIODS OF GUSTY ONSHORE WINDS ARE POSSIBLE IN THE MOUNTAINS AND DESERTS AS WELL...MAINLY IN THE AFTERNOONS AND EVENINGS.

&&

.AVIATION...

120330Z...COAST/VALLEYS...STRATUS BEGINNING TO PUSH INLAND ALONG THE COAST WITH BASES 1500 FT AND TOPS 2500 FT. STRATUS WILL DEEPEN/LIFT OVERNIGHT WITH BASES RISING TO 2000-2500 FT MSL BY EARLY SATURDAY MORNING. FURTHER LIFTING OF BASES/TOPS MAY OCCUR BY SUNRISE. THESE LOW CLOUDS WILL SCATTER OUT BETWEEN 12/1500Z-1700Z.

MTNS/DESERTS... FEW/SCT CLDS AOA 15000 FT MSL. UNRESTRICTED VIS WILL CONTINUE THROUGH SATURDAY MORNING. THIS EVENING THROUGH TONIGHT...W TO SW WINDS INCREASING TO 20-30 KT WITH GUSTS TO 45 KT ALONG RIDGE-TOPS...THROUGH PASSES/CANYONS...ALONG DESERT SLOPES AND INTO FAVORED DESERT AREAS. THIS WILL CREATE MOD-STG UDDFS/LLWS OVER AND E/NE OF THE MTNS...AS WELL AS AREAS OF BLOWING DUST/SAND ON THE DESERT FLOOR...REDUCING VISIBILITY AT TIMES. WINDS WILL EASE SATURDAY BEFORE INCREASING AGAIN SATURDAY EVENING THROUGH SUNDAY MORNING.

&&

.MARINE...

NO SIGNIFICANT MARINE WEATHER CONDITIONS ARE EXPECTED THROUGH TUESDAY.

&&

.FIRE WEATHER...

VERY DRY CONDITIONS WILL DEVELOP ON MONDAY WITH WIDESPREAD DAYTIME HUMIDITY FALLING BELOW 15 PERCENT...EXCEPT ALONG THE COAST. WEAK TO POTENTIALLY MODERATE NORTHEAST TO EAST WINDS WILL DEVELOP LATE SUNDAY NIGHT THROUGH MID-MORNING MONDAY...WITH THE STRONGEST WINDS THROUGH AND BELOW THE FAVORED PASSES AND CANYONS...AND ALONG THE COASTAL SLOPES. DUE TO CURRENT FUEL CONDITIONS NO FIRE PRODUCTS ARE ANTICIPATED AT THIS TIME.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...NONE.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404120400>

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Fig A-5: An Area Forecast Discussion issued by the San Diego NWS office at 0800 pm PST (0900 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-6 URGENT WEATHER MESSAGE APRIL 12, 2014

4/18/2018 IEM :: NPW from NWS SGX

⌈
 223
 WMUS76 KSGX 121035
 NPWSGX

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 335 AM PDT SAT APR 12 2014

...GUSTY WEST WINDS FOR THE MOUNTAINS AND DESERTS OF RIVERSIDE AND SAN DIEGO COUNTIES FOR THIS AFTERNOON THROUGH LATE TONIGHT...

.A TROUGH OF LOW PRESSURE OVER THE GREAT BASIN AND ROCKIES WILL
 MAINTAIN STRONGER ONSHORE FLOW THROUGH TONIGHT WITH STRONG GUSTY
 WEST WINDS IN THE MOUNTAINS AND DESERTS OF RIVERSIDE AND SAN DIEGO
 COUNTIES FOR THIS AFTERNOON THROUGH LATE TONIGHT.

CAZ056-058-061-062-122100-
 /O.NEW.KSGX.WI.Y.0029.140412T1900Z-140413T1000Z/
 RIVERSIDE COUNTY MOUNTAINS-SAN DIEGO COUNTY MOUNTAINS-
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
 335 AM PDT SAT APR 12 2014

...WIND ADVISORY IN EFFECT FROM NOON TODAY TO 3 AM PDT SUNDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND ADVISORY...WHICH IS IN EFFECT FROM NOON TODAY TO 3 AM PDT SUNDAY.

- * WINDS...AREAS OF OF WEST WINDS 20 TO 30 MPH WITH GUSTS TO 45 MPH. ISOLATED GUSTS TO 55 MPH.
- * LOCATION...NEAR MOUNTAIN RIDGE TOPS...ALONG DESERT MOUNTAIN SLOPES...INTO ADJACENT DESERT AREAS.
- * TIMING...WINDS STRENGTHENING THIS AFTERNOON AND EARLY EARLY EVENING...THEN CONTINUING THROUGH LATE TONIGHT. WINDS SUBSIDING EARLY SUNDAY MORNING.
- * VISIBILITY...LOCALLY REDUCED IN BLOWING SAND AND BLOWING DUST IN THE DESERTS.
- * IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404121035>
2/4

Fig A-6: An Urgent Weather Message issued by the San Diego NWS office at 0235 am PST (0335 am PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-7 AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

7
787
FXUS66 KSGX 121153
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
455 AM PDT SAT APR 12 2014

.SYNOPSIS...

A TROUGH OF LOW PRESSURE OVER THE GREAT BASIN AND ROCKIES WILL MAINTAIN STRONGER ONSHORE FLOW THROUGH TONIGHT WITH GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS AND WITH NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG EXTENDING INTO THE FAR INLAND VALLEYS. FOR MONDAY INTO EARLY TUESDAY...SURFACE HIGH PRESSURE OVER THE GREAT BASIN AND HIGH PRESSURE ALOFT NEAR THE WEST COAST WILL BRING A WARMING TREND WITH GUSTY NORTHEAST WINDS NEAR THE COASTAL FOOTHILLS AT TIMES. ANOTHER TROUGH OF LOW PRESSURE MOVING INLAND THROUGH THE WEST WILL BRING A RETURN OF WEAKER ONSHORE FLOW FOR THE LATTER HALF OF THE WEEK WITH SEASONAL TEMPERATURES AND A RETURN OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

A TROUGH OF LOW PRESSURE OVER THE GREAT BASIN AND ROCKIES WILL BRING STRONGER ONSHORE FLOW THROUGH TONIGHT. THIS WILL BRING COOLER TEMPERATURES WITH HIGH TEMPERATURES FOR THE COAST AND VALLEYS A FEW DEGREES BELOW AVERAGE AND HIGH TEMPERATURES FOR THE MOUNTAINS AND DESERTS NEAR TO SLIGHTLY ABOVE AVERAGE. THE MARINE LAYER HAS DEEPENED TO AROUND 3000 FEET WITH DEEPENING TO AROUND 3500 FEET FOR LATE TONIGHT INTO SUNDAY MORNING. AREAS OF LOW CLOUDS WILL EXTEND INLAND TO THE FAR INLAND VALLEYS EACH LATE NIGHT THROUGH EARLY MORNING...THEN CLEAR BACK TO NEAR THE COAST EACH AFTERNOON. THE STRONGER ONSHORE FLOW WILL ALSO BRING GUSTY WEST WINDS TO THE MOUNTAINS AND DESERTS...STRONGEST THIS AFTERNOON THROUGH LATE TONIGHT.

Winds

AS THE TROUGH OF LOW PRESSURE MOVES EAST...HIGH PRESSURE ALOFT WILL DEVELOP ALONG THE WEST COAST WITH SURFACE HIGH PRESSURE OVER THE GREAT BASIN. THIS WILL BRING WARMING WITH HIGH TEMPERATURES SEVERAL DEGREES ABOVE AVERAGE FOR MONDAY AND TUESDAY FROM THE MOUNTAINS WESTWARD WITH WARMING MORE MODEST IN THE DESERTS AND GREATER ON TUESDAY THAN MONDAY. THE SURFACE HIGH PRESSURE OVER THE GREAT BASIN COULD ALSO BRING LOCALIZED ADVISORY STRENGTH NORTHEAST WINDS NEAR COASTAL FOOTHILLS AND BELOW PASSES AND CANYONS MONDAY MORNING.

FOR WEDNESDAY THROUGH FRIDAY...WEAKER ONSHORE FLOW WILL RETURN WITH NEAR SEASONAL TEMPERATURES AND WITH A RETURN OF AREAS OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404121155>

2/5

FIGURE A-7 AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

&&

.AVIATION...

120801Z...COAST/VALLEYS...STRATUS WILL CONTINUE TO MOVE INLAND 30-50 SM THROUGH 1500 UTC...WITH BASES 1800-2500 FT MSL...TOPS 3000-3500 FT MSL...AND OBSCURATION OF LOWER COASTAL SLOPES DUE TO CLDS. STRATUS WILL CLEAR SLOWLY 1700-2000 UTC...WITH UNRESTRICTED VIS AND FEW-SCT CLDS 2500-3000 FT MSL OCCURRING 2000-13/0000 UTC. 13/0000-0600 UTC...STRATUS MOVING QUICKLY INLAND AGAIN...EVENTUALLY REACHING 30-50 SM INLAND BY 13/0900 UTC. BASES WILL BE 2000-2500 FT MSL AND TOPS 3000-3500 FT MSL...WITH OBSCURATION LOWER COASTAL SLOPES DUE TO CLDS.

MTNS/DESERTS...SCT-FEW CLDS AOA 15000 FT MSL...BECOMING FEW-SKC AFTER 1200 UTC. UNRESTRICTED VIS WILL CONTINUE THROUGH SUNDAY MORNING...EXCEPT FOR LOCAL VIS AOB 3SM AT TIMES IN THE DESERTS DUE TO BLOWING DUST/SAND. W TO SW WINDS 20-30 KT WITH GUSTS TO 45 KT ALONG RIDGE-TOPS...THROUGH PASSES/CANYONS...ALONG DESERT SLOPES AND INTO FAVORED DESERT AREAS WILL CREATE MOD-STG UDDFS/LLWS OVER AND E OR NE OF THE MTNS THROUGH SUNDAY MORNING.

&&

.MARINE...

ALTHOUGH ONSHORE FLOW WILL STRENGTHEN LATE TUESDAY THROUGH WEDNESDAY...IT NO LONGER LOOKS AS STRONG AS IT DID PREVIOUSLY. THUS...LATEST WAVE WATCH 3 SHOWS SWELLS PEAKING AT 8 FEET...AS OPPOSED TO THE 11 FEET IT WAS SHOWING YESTERDAY. ALSO...THE GFS AND ECMWF SHOWS WINDS PEAKING AT AROUND 20 KT. THUS...ALTHOUGH THE SEAS WILL BE CHOPPY WITH SOME GUSTY CONDITIONS...A SMALL CRAFT ADVISORY ISSUANCE FOR THAT TIME-PERIOD LOOKS LESS LIKELY AT THIS TIME.

OTHERWISE...NO SIGNIFICANT MARINE WEATHER CONDITIONS ARE EXPECTED THROUGH FRIDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY FROM NOON TODAY TO 3 AM PDT SUNDAY FOR THE COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

PZ...NONE.

&&

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404121155>

3/5

Fig A-7: An Area Forecast Discussion issued by the San Diego NWS office at 0355 am PST (0455 am PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-8 AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

695
FXUS66 KSGX 121637
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
935 AM PDT SAT APR 12 2014

.SYNOPSIS...

UPPER LEVEL TROUGH OF LOW PRESSURE WILL MOVE INLAND ACROSS SOUTHERN CALIFORNIA TODAY...WHILE ANOTHER DIGS SOUTH FROM THE PACIFIC NORTHWEST. AS A RESULT...COOLER CONDITIONS WILL PREVAIL...WITH A STUBBORN MARINE LAYER SLOW TO CLEAR WEST OF THE MOUNTAINS. STRONG ONSHORE FLOW WILL CONTINUE ACROSS THE REGION...WITH GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS. DRY AND WARMER CONDITIONS WILL DEVELOP FOR MONDAY AND TUESDAY...AS HIGH PRESSURE BUILDS BACK ACROSS THE REGION...WITH SOME GUSTY OFFSHORE WINDS POSSIBLE. ANOTHER TROUGH OF LOW PRESSURE WILL MOVE INLAND ACROSS THE WEST FOR THE LATTER HALF OF THE WEEK...BRINGING A RETURN OF WEAKER ONSHORE FLOW...MORE SEASONAL TEMPERATURES...AND A RETURN OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

WATER VAPOR IMAGERY SHOWS AN UPPER LEVEL LOW SLOWLY OPENING UP AS IT MOVES INLAND ACROSS SOUTHERN CALIFORNIA THIS MORNING. AS A RESULT...THE ONSHORE GRADIENTS ARE ON THE RISE...WITH A MUCH DEEPER MARINE LAYER BLANKETS THE AREAS WEST OF THE MOUNTAINS. THE 12Z KNKX SOUNDING SHOWS THAT THE MARINE LAYER DEEPENED TO AROUND 3200 FEET LAST NIGHT...WITH SURFACE OBSERVATIONS SHOWING THAT IT IS NOW AROUND 4000 FEET DEEP. THE SOUNDING ALSO SHOWS THAT THE MARINE LAYER IS RELATIVELY THIN...WHICH IS ALLOWING FOR A FEW SUN BREAKS.

HOWEVER...WITH THE ONSHORE GRADIENTS INCREASING THROUGH THE DAY TODAY TO NEARLY 11 MBS BETWEEN SAN DIEGO AND DAGGETT...BELIEVE THAT ONLY A PARTIAL CLEARLY WILL OCCUR. GUSTY WEST WINDS WILL ALSO DEVELOP IN THE MOUNTAINS AND DESERTS THIS AFTERNOON. CURRENTLY THE STRONGEST GUSTS ARE RUNNING BETWEEN 35 AND 45 MPH...BUT AS THE GRADIENTS TIGHT AND UPPER LEVEL SUPPORT INCREASES THIS AFTERNOON...GUSTS UP TO 55 MPH WILL BE POSSIBLE AT THE FAVORED LOCATIONS. THEREFORE...THE WIND ADVISORY LOOKS ON TRACK FOR THE SOUTHERN MOUNTAINS AND DESERTS. MEANWHILE...TEMPERATURES TODAY WILL LIKELY RUN 8 TO 18 COOLER THAN YESTERDAY...WITH TEMPERATURES FALLING BACK BELOW NORMAL.

WATER VAPOR IMAGERY ALSO SHOWS AN UPPER LEVEL TROUGH DIGGING SOUTH ACROSS THE PACIFIC NORTHWEST THIS MORNING. AS IT DIVES ACROSS THE GREAT BASIN ON TONIGHT AND ON SUNDAY...STRONG ONSHORE FLOW WILL CONTINUE ACROSS THE REGION...WITH OUR DEEP MARINE LAYER LINGERING

Second Low

FIGURE A-8
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

WEST OF THE MOUNTAINS. FOR THIS REASON...COOL CONDITIONS WILL PREVAIL THROUGH SUNDAY...EVEN THOUGH SOME INLAND AREAS MAY BE A DEGREE OR TWO WARMER.

HIGH PRESSURE WILL THEN BUILD BACK ACROSS SOUTHERN CALIFORNIA FOR THE FIRST PART OF THE WORK WEEK...WITH DRY AND WARMER CONDITIONS DEVELOPING. AT THIS TIME...IT APPEARS THAT SOME OFFSHORE WINDS WILL DEVELOP BY MONDAY MORNING. HOWEVER...THE MODELS ARE NOW ALL IN AGREEMENT THAT THIS WILL BE A RELATIVELY WEAK OFFSHORE EVENT...WITH JUST SOME LOCALLY GUSTY NORTHEAST TO EAST WINDS POSSIBLE THROUGH THE FAVORED PASSES AND CANYONS.

A SERIES OF WEAK TROUGHS WILL THEN TAKE AIM AT THE WEST COAST FOR THE LATTER PART OF THE WORK WEEK AND WEEKEND. ALTHOUGH IT APPEARS THAT DRY CONDITIONS WILL LIKELY PREVAIL...THE ONSHORE FLOW AND COOLER CONDITIONS WILL LIKELY RETURN. THE MARINE LAYER WILL ALSO RETURN...WITH COASTAL LOW CLOUDS AND FOG POSSIBLE EACH NIGHT.

&&

.AVIATION...

121500Z...COAST/VALLEYS...WIDESPREAD LOW CLOUDS WEST OF THE MTNS WITH BKN-OVC CIGS 2500-3000 FT MSL AND TOPS 3500-4000 FT MSL WILL GRADUALLY BECOME SCT THROUGH 19Z. BETTER CLEARING IS MORE LIKELY VCNTY KSAN...KCRQ AND KONT THAN AT KSNA. HIGHER TERRAIN WILL REMAIN OBSCURED THROUGH 17Z WITH FOG REDUCING VIS TO 1-3SM WHERE CLOUDS AND TERRAIN INTERSECT. LOW CLOUDS WITH BKN-OVC CIGS 2000-2500 FT MSL AND TOPS 3000-3500 FT MSL WILL LIKELY RETURN TO THE COASTAL TAF SITES BETWEEN 01Z AND 03Z. LOW CLOUDS WILL SPREAD INLAND TO THE COASTAL SLOPES BY 09Z...OBSCURING HIGHER TERRAIN AND REDUCING VIS WHERE CLOUDS AND TERRAIN INTERSECT.

ELSEWHERE...FEW-SCT CLOUDS AOA 15000 FT WITH UNRESTRICTED VIS THROUGH SUNDAY MORNING.

MTNS/DESERTS...W TO SW WINDS 20-30 KT WITH GUSTS TO 45 KT WILL CREATE MOD-STG UDDFS/LLWS OVER AND E OF THE MTNS THROUGH SUNDAY MORNING.

&&

.MARINE...

WAVE MODELS INDICATE THAT COMBINED SEAS WILL REACH 8 FEET IN THE OUTER WATERS FOR A FEW HOURS WED MORNING AS A 9-SECOND SWELL MOVES IN AND WINDS INCREASE A LITTLE OUT OF THE NW.

OTHERWISE...NO SIGNIFICANT MARINE WEATHER CONDITIONS ARE EXPECTED THROUGH FRIDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

FIGURE A-8
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 3

4/18/2018 IEM :: AFD from NWS SGX

&&

.SGX WATCHES/WARNINGS/ADVISORIES...
CA...WIND ADVISORY FROM NOON TODAY TO 3 AM PDT SUNDAY FOR THE
COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN DIEGO
COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

PZ...NONE.

&&

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PUBLIC...PALMER
AVIATION/MARINE...PG

Fig A-8: An Area Forecast Discussion issued by the San Diego NWS office at 0835 am PST (0935 am PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-9 URGENT WEATHER MESSAGE APRIL 12, 2014

4/18/2018 IEM :: NPW from NWS SGX

r
 232
 WWUS76 KSGX 121955
 NPWSGX

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 1255 PM PDT SAT APR 12 2014

...GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS OF RIVERSIDE AND SAN DIEGO COUNTIES THROUGH LATE TONIGHT...

.A TROUGH OF LOW PRESSURE OVER THE WEST WILL MAINTAIN STRONGER ONSHORE FLOW OVER SOUTHERN CALIFORNIA...WITH STRONG GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS OF RIVERSIDE AND SAN DIEGO COUNTIES THROUGH LATE TONIGHT.

CAZ056-058-061-062-130500-
 /O.CON.KSGX.WI.Y.0029.000000T0000Z-140413T1000Z/
 RIVERSIDE COUNTY MOUNTAINS-SAN DIEGO COUNTY MOUNTAINS-
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
 1255 PM PDT SAT APR 12 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 3 AM PDT SUNDAY...

- * WINDS...AREAS OF OF WEST WINDS 20 TO 35 MPH...WITH GUSTS TO 50 MPH. ISOLATED GUSTS UP TO 60 MPH.
- * LOCATION...NEAR MOUNTAIN RIDGE TOPS...ALONG DESERT MOUNTAIN SLOPES...INTO ADJACENT DESERT AREAS.
- * TIMING...WINDS WILL STRENGTHEN THROUGH EARLY THIS EVENING...THEN CONTINUE THROUGH LATE TONIGHT. WINDS SUBSIDING EARLY SUNDAY MORNING.
- * VISIBILITY...LOCALLY REDUCED IN BLOWING SAND AND BLOWING DUST IN THE DESERTS.
- * IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

&&

\$\$

PALMER

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404121955>

2/3

Fig A-9: An Urgent Weather Message issued by the San Diego NWS office at 1155 am PST (1255 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-10
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

940
FXUS66 KSGX 122044
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
145 PM PDT SAT APR 12 2014

.SYNOPSIS...

UPPER LEVEL TROUGH WILL REMAIN OVER THE WEST THROUGH SUNDAY...WITH STRONG ONSHORE FLOW AND COOLER CONDITIONS PREVAILING. GUSTY WEST WINDS WILL CONTINUE ACROSS THE MOUNTAINS AND DESERTS...AND A DEEP MARINE LAYER WILL QUICKLY MOVE INLAND AGAIN THIS EVENING. DRY AND WARMER CONDITIONS WILL DEVELOP FOR MONDAY AND TUESDAY...AS HIGH PRESSURE BUILDS BACK ACROSS THE REGION...WITH SOME GUSTY OFFSHORE WINDS POSSIBLE. ANOTHER TROUGH OF LOW PRESSURE WILL THEN MOVE INLAND ACROSS THE WEST FOR THE LATTER HALF OF THE WEEK...BRINGING A RETURN OF WEAKER ONSHORE FLOW...MORE SEASONAL TEMPERATURES...AND A RETURN OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

WATER VAPOR IMAGERY SHOWS A BROAD TROUGH OF LOW PRESSURE OVER THE WEST THIS AFTERNOON...WITH A SERIES OF DISTURBANCES MOVING THROUGH IT. THE FIRST OF WHICH MOVED ACROSS SOUTHERN CALIFORNIA EARLIER THIS MORNING...AND IS NOW OVER THE COLORADO RIVER BASIN. THERE ALSO APPEARS TO BE TWO DEFORMATION ZONES MOVING SOUTH ACROSS NORTHERN CALIFORNIA AND NEVADA...AS A MORE POTENT TROUGH DIGS SOUTH ACROSS THE INTERMOUNTAIN WEST. AS A RESULT...ISOLATED SHOWERS AND THUNDERSTORMS ARE DEVELOPING OVER THE CENTRAL AND SOUTHERN SIERRA THIS AFTERNOON. HOWEVER...DRY CONDITIONS PREVAIL ACROSS SOUTHERN CALIFORNIA...WITH JUST A FEW LINGERING LOW CLOUDS. VISIBLE IMAGERY DOES SHOW THAT THE MARINE LAYER IS JUST KNOCKING ON THE COASTAL DOOR THIS AFTERNOON THOUGH...AND WILL LIKELY SURGE INLAND QUICKLY THIS EVENING WITH THE STRONG ONSHORE FLOW. THE ONSHORE GRADIENTS ARE ALREADY UP TO 10.4 MBS BETWEEN SAN DIEGO AND DAGGETT AND 8.9 MBS BETWEEN SAN DIEGO AND IMPERIAL. THESE GRADIENTS ARE STRONGER THAN WHAT THE MODELS WERE PREDICTING FOR THIS AFTERNOON...WITH SOME OF THE FAVORED SPOTS IN THE NORTHERN COACHELLA VALLEY ARE ALREADY GUSTING TO AROUND 60 MPH. THEREFORE...THE WIND ADVISORY LOOKS ON TRACK THROUGH TONIGHT. OTHERWISE...TEMPERATURES THIS AFTERNOON RUNNING 10 TO 18 DEGREES COOLER MOST PLACES THIS AFTERNOON...WHICH WILL MAKE FOR A VERY MILD EVENING ACROSS THE REGION.

THE UPPER LEVEL TROUGH DIGGING SOUTH ACROSS THE PACIFIC NORTHWEST THIS AFTERNOON WILL DIVE ACROSS THE GREAT BASIN LATER TONIGHT AND ON SUNDAY. THIS WILL KEEP RELATIVELY STRONG ONSHORE FLOW ACROSS THE REGION...BUT NOT QUITE AS STRONG AS THAT OF TODAY. THE MARINE LAYER

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404122045>

2/5

FIGURE A-10
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

WILL ALSO PUSH WELL INLAND TONIGHT...REMAINING AROUND 4000 FEET DEEP. FOR THIS REASON...COOL CONDITIONS WILL CONTINUE TO PREVAIL THROUGH SUNDAY...EVEN THOUGH SOME INLAND AREAS MAY BE A DEGREE OR TWO WARMER THAN TODAY.

HIGH PRESSURE WILL THEN BUILD BACK ACROSS SOUTHERN CALIFORNIA FOR THE FIRST PART OF THE WORK WEEK...WITH DRY AND WARMER CONDITIONS DEVELOPING. AT THIS TIME...IT APPEARS THAT SOME OFFSHORE WINDS WILL DEVELOP BY MONDAY MORNING. HOWEVER...THE MODELS ARE NOW ALL IN AGREEMENT THAT THIS WILL BE A RELATIVELY WEAK OFFSHORE EVENT...WITH JUST SOME LOCALLY GUSTY NORTHEAST TO EAST WINDS POSSIBLE THROUGH THE FAVORED PASSES AND CANYONS.

A SERIES OF TROUGHS WILL THEN TAKE AIM AT THE WEST COAST FOR THE LATTER PART OF THE WORK WEEK AND WEEKEND...EVEN THOUGH THERE ARE SOME PLACEMENT AND STRENGTH DIFFERENCES. ALTHOUGH IT APPEARS THAT DRY CONDITIONS WILL LIKELY PREVAIL AT THIS TIME...THE ONSHORE FLOW AND COOLER CONDITIONS WILL LIKELY RETURN. THE MARINE LAYER WILL ALSO RETURN...WITH COASTAL LOW CLOUDS AND FOG POSSIBLE EACH NIGHT.

&&

.AVIATION...

122030Z...COAST/VALLEYS...SCT LOW CLOUDS WEST OF THE MTNS WITH BASES 2500-3000 FT MSL AND TOPS 3500-4000 FT MSL THIS AFTERNOON. LOW CLOUDS WITH BKN-OVC CIGS 2000-2500 FT MSL AND TOPS 3000-3500 FT MSL WILL LIKELY RETURN TO THE COASTAL TAF SITES BETWEEN 01Z AND 03Z. LOW CLOUDS WILL SPREAD INLAND TO THE COASTAL SLOPES BY 09Z...OBSCURING HIGHER TERRAIN AND REDUCING VIS WHERE CLOUDS AND TERRAIN INTERSECT.

ELSEWHERE...FEW-SCT CLOUDS AOA 15000 FT WITH UNRESTRICTED VIS THROUGH SUNDAY MORNING.

MTNS/DESERTS...W TO SW WINDS 15-20 KT WITH GUSTS TO 35 KT WILL CREATE MOD-STG UDDFS AND LLWS OVER AND E OF THE MTNS THROUGH SUNDAY MORNING.

&&

.MARINE...

WAVE MODELS INDICATE THAT COMBINED SEAS WILL REACH 8-9 FEET IN THE OUTER WATERS FOR A FEW HOURS WED MORNING AS A 9-SECOND SWELL MOVES IN AND WINDS INCREASE A LITTLE OUT OF THE NW.

OTHERWISE...NO SIGNIFICANT MARINE WEATHER CONDITIONS ARE EXPECTED THROUGH FRIDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

FIGURE A-10
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 3

4/18/2018

IEM :: AFD from NWS SGX

.SGX WATCHES/WARNINGS/ADVISORIES...
CA...WIND ADVISORY UNTIL 3 AM PDT SUNDAY FOR THE COACHELLA VALLEY...
RIVERSIDE COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN
DIEGO COUNTY MOUNTAINS.

PZ...NONE.

&&

\$\$

PUBLIC...PALMER
AVIATION/MARINE...PG

Fig A-10: An Area Forecast Discussion issued by the San Diego NWS office at 1245 pm PST (0145 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-11 AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

390
 FXUS66 KSGX 130331
 AFDSGX

AREA FORECAST DISCUSSION
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 831 PM PDT SAT APR 12 2014

.SYNOPSIS...

LOW PRESSURE OVER THE GREAT BASIN WILL GENERATE STRONG WINDS OVERNIGHT INTO SUNDAY MORNING OVER MOUNTAIN AND DESERT AREAS. THE STRONG ONSHORE FLOW WILL KEEP A DEEP MARINE LAYER IN PLACE WEST OF THE MOUNTAINS ON SUNDAY...AND TEMPERATURES BELOW NORMAL. DRY AND WARMER MONDAY AND TUESDAY AS THE ONSHORE WEAKENS AND TURNS BRIEFLY OFFSHORE...SHRINKING THE MARINE LAYER BACK TO THE IMMEDIATE COAST. COOLER AGAIN BY MIDWEEK WITH AREAS OF NIGHT AND MORNING LOW CLOUDS AND FOG RETURNING WEST OF THE MOUNTAINS AS A BROAD LOW PRESSURE TROUGH DEVELOPS OVER THE WEST AND ONSHORE FLOW STRENGTHENS.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
 SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
 COUNTIES...

MARINE CLOUDS WERE DEVELOPING RAPIDLY INLAND TO THE COASTAL SLOPES THROUGH 03Z THANKS TO STRONG ONSHORE SFC PRESSURE GRADIENTS OF AROUND 10 MBS TO THE DESERTS. WIDESPREAD WESTERLY WINDS OF 20 TO 35 MPH WERE REPORTED ACROSS THE DESERTS. TODAY WITH PEAK WIND GUSTS OVER 50 MPH BELOW THE BANNING PASS AREA INTO THE EASTERN COACHELLA VALLEY. A WIND ADVISORY IS IN EFFECT FOR THE LOWER DESERTS THROUGH 3 AM SUN MORNING.

A LOW PRESSURE TROUGH ALOFT DROPPING SOUTH THROUGH THE GREAT BASIN WAS SUPPORTING A 1099 MB SFC LOW OVER SOUTHERN NV AT 03Z...AND GUSTY ONSHORE FLOW OVER THE MOUNTAIN RIDGES/PASSES AND INTO THE DESERTS OF Socal. WINDS WILL REMAIN STRONG AND GUSTY...ESPECIALLY THROUGH WIND PRONE AREAS INTO SUN MORNING...WITH LOCAL BLOWING DUST AND SAND IN THE DESERTS. THE WINDS WILL SUBSIDE ON SUN AS THE SURFACE LOW GRADUALLY WEAKENS. A FAIRLY DEEP MARINE LAYER WEST OF THE MOUNTAINS WILL CONTINUE PERIODS OF MARINE CLOUDS AND BELOW NORMAL TEMPERATURES THROUGH SUN NIGHT...FOLLOWED BY A SHARP WARM-UP WEST OF THE MOUNTAINS AS WINDS SWING BACK OFFSHORE FOR A TIME ON MON MORNING.

WEAK...PROGRESSIVE RIDGING ACROSS THE WEST ON MON/TUE WILL RESULT IN DRY AND SEASONALLY WARM SPRING WEATHER WITH LOCALLY GUSTY EASTERLY WINDS BELOW THE PASSES AND CANYONS ON MON. THE RIDGE WILL GIVE WAY TO A BROAD TROUGH ACROSS THE CONTINENT AGAIN BY WED. ONSHORE FLOW WILL ACCELERATE AND THE MARINE LAYER WILL DEEPEN...SENDING LOW CLOUDS AND FOG INLAND...AND PULLING MAX DAYTIME TEMPS BACK CLOSER TO AVERAGE UNTIL NEXT WEEKEND WHEN SOME RIDGING IS FORECAST TO BUILD BACK ACROSS THE SOUTHWEST.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404130331>

2/5

FIGURE A-11
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

&&

.AVIATION...

130300Z...COAST/VALLEYS...LOW CLOUDS WITH BKN-OVC CIGS 2000-3000 FT MSL AND TOPS TO 3500 FT MSL HAVE RETURNED TO THE COASTAL AREAS AND WILL CONTINUE TO SPREAD INLAND TO THE COASTAL SLOPES AND INLAND EMPIRE OVERNIGHT...OBSCURING HIGHER TERRAIN AND REDUCING VIS WHERE CLOUDS AND TERRAIN INTERSECT. LOW CLOUDS EXPECTED TO BE SOMEWHAT SLOW TO SCATTER OUT SUNDAY MORNING...LIKELY BETWEEN 13/18-20Z.

MTNS/DESERTS...W-NW WINDS 20-30 KT WITH GUSTS 40 KT TO LOCALLY 50 KT BELOW THE BANNING PASS...WILL CREATE MOD-STG UDDFS AND LLWS OVER AND E OF THE MTNS THROUGH SUNDAY MORNING. WINDS WILL RELAX DURING THE DAY SUNDAY BEFORE INCREASING AGAIN FROM THE NORTHEAST LATE SUNDAY NIGHT THROUGH MONDAY MORNING.

&&

.MARINE...

WAVE MODELS INDICATE A 6 TO 8 FOOT SWELL WITH 10 SECOND PERIOD MOVING THROUGH THE OUTER WATERS BRIEFLY WED MORNING. THIS ALONG WITH A LITTLE INCREASE IN THE NW WIND COULD CREATE CHOPPY CONDITIONS FOR BOATERS.

OTHERWISE...NO SIGNIFICANT MARINE WEATHER CONDITIONS ARE EXPECTED THROUGH FRIDAY.

&&

.FIRE WEATHER...

A BRIEF PERIOD OF GUSTY OFFSHORE FLOW WILL DEVELOP ON MONDAY BELOW THE PASSES AND CANYONS AND ALONG THE COASTAL FOOTHILLS...ACCOMPANIED BY MIN RH VALUES OF 10-15 PERCENT. LOCAL WINDS OF 25 TO 35 MPH WITH GUSTS OF 45 TO 55 MPH ARE POSSIBLE IN THE WINDIEST SPOTS WHICH MAY CREATE SEVERAL HOURS OF CRITICAL FIRE WEATHER CONDITIONS MON AFTERNOON.

THE WINDS WILL SUBSIDE RAPIDLY MON EVENING...BUT RH WILL RECOVER ONLY MODESTLY MON NIGHT BEFORE FALLING TO 5-15 PERCENT BY TUE AFTERNOON. IN ADDITION...STRONG ONSHORE WINDS WILL DEVELOP OVER THE RIDGES AND INTO THE DESERTS WHEN CRITICAL THRESHOLDS MAY BE REACHED AGAIN FOR A FEW HOURS LATE IN THE DAY ON THE RIDGES...DESERT SLOPES AND FOOTHILLS AS WESTERLY WIND GUSTS INCREASE TO 30 TO 40 MPH.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404130331>

3/5

FIGURE A-11
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 3

4/18/2018

IEM :: AFD from NWS SGX

CA...WIND ADVISORY UNTIL 3 AM PDT SUNDAY FOR THE COACHELLA VALLEY...
RIVERSIDE COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN
DIEGO COUNTY MOUNTAINS.

PZ...NONE.

&&

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PUBLIC/FIRE WEATHER...JAD
AVIATION/MARINE...TS

Fig A-11: An Area Forecast Discussion issued by the San Diego NWS office at 0731 pm PST (0831 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-12
URGENT WEATHER MESSAGE APRIL 12, 2014 – PG 1

4/18/2018

IEM :: NPW from NWS SGX

┌
 807
 WWUS76 KSGX 130343
 NPWSGX

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 843 PM PDT SAT APR 12 2014

...GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS OF RIVERSIDE AND
 SAN DIEGO COUNTIES THROUGH LATE TONIGHT...

.LOW PRESSURE OVER THE GREAT BASIN WILL MAINTAIN ONSHORE FLOW
 OVER SOUTHERN CALIFORNIA THROUGH LATE TONIGHT...WITH STRONG AND GUSTY
 WEST WINDS IN THE MOUNTAINS AND LOWER DESERTS.

CAZ056-058-061-062-131000-

/O.CON.KSGX.WI.Y.0029.000000T0000Z-140413T1000Z/

RIVERSIDE COUNTY MOUNTAINS-SAN DIEGO COUNTY MOUNTAINS-
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
 843 PM PDT SAT APR 12 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 3 AM PDT SUNDAY...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 3 AM PDT SUNDAY.

* LOCATION...NEAR MOUNTAIN RIDGE TOPS...ALONG DESERT MOUNTAIN
 SLOPES...INTO ADJACENT DESERT AREAS.

* TIMING...THROUGH LATE TONIGHT. WINDS SUBSIDING SUNDAY MORNING.

* VISIBILITY...LOCALLY REDUCED IN BLOWING SAND AND BLOWING DUST
 IN THE DESERTS.

* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR
 MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE
 LIMBS AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS
 THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
 PROFILE VEHICLES. USE EXTRA CAUTION.

&&

HIGHEST WIND GUST REPORTS SINCE MIDNIGHT...

SKY VALLEY	82	4 PM PDT
EDOM HILL	73	7 PM PDT
WHITE WATER WEST	55	2 PM PDT
VOLCAN MOUNTAIN	52	2 PM PDT
DESERT HOT SPGS	51	7 PM PDT

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404130343>

2/4

FIGURE A-12
URGENT WEATHER MESSAGE APRIL 12, 2014 – PG 2

4/18/2018 IEM :: NPW from NWS SGX

BOULEVARD WEST	47	2 PM PDT
THOUSAND PALMS	46	5 PM PDT
HARRISON PARK	43	2 PM PDT
SUNRISE SDGE	40	7 PM PDT

\$\$

JAD

Fig A-12: An Urgent Weather Message issued by the San Diego NWS office at 0743 pm PST (0843 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-13
PRELIMINARY LOCAL STORM REPORT APRIL 12, 2014

4/18/2018

IEM :: LSR from NWS SGX

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r
873
NWUS56 KSGX 130345
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
844 PM PDT SAT APR 12 2014

...TIME...  ...EVENT...    ...CITY LOCATION...  ...LAT.LON...
...DATE...   ...MAG...    ..COUNTY LOCATION..ST.. ...SOURCE...
...REMARKS..

0750 PM      NON-TSTM WND GST 3 NNE CATHEDRAL CITY  33.87N 116.43W
04/12/2014    M73 MPH          RIVERSIDE         CA   MESONET

SUSTAINED WINDS GREATER THAN 30 MPH SINCE 1850Z

MESONET STATION EDM HILL (6 NE PSP) /SDEDO/

&&

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NWS SAN DIEGO CA
IRIS SYSTEM

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Fig A-13: A Preliminary Local Storm Report issued by the San Diego NWS office at 0744 pm PST (0844 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-14
PRELIMINARY LOCAL STORM REPORT APRIL 12, 2014

4/18/2018

IEM :: LSR from NWS SGX

124 NWUS56 KSGX 130346 LSRSGX			
PRELIMINARY LOCAL STORM REPORT NATIONAL WEATHER SERVICE SAN DIEGO CA 846 PM PDT SAT APR 12 2014			
...TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
...DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
..REMARKS..			
0250 PM	NON-TSTM WND GST 7	ENE CABAZON	33.95N 116.66W
04/12/2014	M55 MPH	RIVERSIDE	CA MESONET
SUSTAINED WINDS GREATER THAN 30 MPH SINCE 9:57 PDT			
MESONET STATION WHITEWATER RAWS /WMAC1/			
&&			
\$\$			
NWS SAN DIEGO CA			
IRIS SYSTEM			

Fig A-14: A Preliminary Local Storm Report issued by the San Diego NWS office at 0746 pm PST (0846 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-15
PRELIMINARY LOCAL STORM REPORT APRIL 12, 2014

4/18/2018

IEM :: LSR from NWS SGX

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759
NWUS56 KSGX 130349
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
849 PM PDT SAT APR 12 2014

...TIME...  ...EVENT...    ...CITY LOCATION...  ...LAT.LON...
...DATE...  ...MAG...    ...COUNTY LOCATION..ST.. ...SOURCE....
..REMARKS..

0240 PM      NON-TSTM WND GST 2 NNE JULIAN      33.10N 116.58W
04/12/2014    M52 MPH          SAN DIEGO          CA    MESONET

SUSTAINED WINDS GREATER THAN 30 MPH SINCE 1:50 PM PDT

MESONET STATION VOLCAN MOUNTAIN /VCMSD/

&&

$$

NWS SAN DIEGO CA
IRIS SYSTEM

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Fig A-15: A Preliminary Local Storm Report issued by the San Diego NWS office at 0749 pm PST (0849 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-16
PRELIMINARY LOCAL STORM REPORT APRIL 12, 2014

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966
NWUS56 KSGX 130413
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
912 PM PDT SAT APR 12 2014

..TIME...  ..EVENT...    ...CITY LOCATION...  ...LAT.LON...
..DATE...   ...MAG....    ..COUNTY LOCATION..ST..  ...SOURCE...
..REMARKS..

0450 PM     NON-TSTM WND GST 5 NNE THOUSAND PALMS  33.89N 116.35W
04/12/2014  M82.00 MPH      RIVERSIDE      CA      MESONET

SUSTAINED WINDS GREATER THAN 30 MPH SINCE 844 AM PDT,
MESONET STATION SKY VALLEY /EW3081/

&&

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BALBRI

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Fig A-16: A Preliminary Local Storm Report issued by the San Diego NWS office at 1021 pm PST (0921 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-16

AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

r
 861
 FXUS66 KSGX 130452 CCA
 AFDSGX

AREA FORECAST DISCUSSION...CORRECTED
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 952 PM PDT SAT APR 12 2014

.SYNOPSIS...

LOW PRESSURE OVER THE GREAT BASIN WILL GENERATE STRONG WINDS
 OVERNIGHT INTO SUNDAY MORNING OVER MOUNTAIN AND DESERT AREAS. THE
 STRONG ONSHORE FLOW WILL KEEP A DEEP MARINE LAYER IN PLACE WEST OF
 THE MOUNTAINS ON SUNDAY...AND TEMPERATURES BELOW NORMAL. DRY AND
 WARMER MONDAY AND TUESDAY AS THE ONSHORE WEAKENS AND TURNS BRIEFLY
 OFFSHORE...SHRINKING THE MARINE LAYER BACK TO THE IMMEDIATE COAST.
 COOLER AGAIN BY MIDWEEK WITH AREAS OF NIGHT AND MORNING LOW CLOUDS
 AND FOG RETURNING WEST OF THE MOUNTAINS AS A BROAD LOW PRESSURE
 TROUGH DEVELOPS OVER THE WEST AND ONSHORE FLOW STRENGTHENS.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
 SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
 COUNTIES...

MARINE CLOUDS WERE DEVELOPING RAPIDLY INLAND TO THE COASTAL SLOPES
 THROUGH 03Z THANKS TO STRONG ONSHORE SFC PRESSURE GRADIENTS OF
 AROUND 10 MBS TO THE DESERTS. WIDESPREAD WESTERLY WINDS OF 20 TO 35
 MPH WERE REPORTED ACROSS THE DESERTS. TODAY WITH PEAK WIND GUSTS
 OVER 50 MPH BELOW THE BANNING PASS AREA INTO THE EASTERN COACHELLA
 VALLEY. A WIND ADVISORY IS IN EFFECT FOR THE LOWER DESERTS THROUGH 3
 AM SUN MORNING.

A LOW PRESSURE TROUGH ALOFT DROPPING SOUTH THROUGH THE GREAT BASIN
 WAS SUPPORTING A 999 MB SFC LOW OVER SOUTHERN NV AT 03Z...AND GUSTY
 ONSHORE FLOW OVER THE MOUNTAIN RIDGES/PASSES AND INTO THE DESERTS OF
 Socal. WINDS WILL REMAIN STRONG AND GUSTY...ESPECIALLY THROUGH WIND
 PRONE AREAS INTO SUN MORNING...WITH LOCAL BLOWING DUST AND SAND IN
 THE DESERTS. THE WINDS WILL SUBSIDE ON SUN AS THE SURFACE LOW
 GRADUALLY WEAKENS. A FAIRLY DEEP MARINE LAYER WEST OF THE MOUNTAINS
 WILL CONTINUE PERIODS OF MARINE CLOUDS AND BELOW NORMAL TEMPERATURES
 THROUGH SUN NIGHT...FOLLOWED BY A SHARP WARM-UP WEST OF THE
 MOUNTAINS AS WINDS SWING BACK OFFSHORE FOR A TIME ON MON MORNING.

WEAK...PROGRESSIVE RIDGING ACROSS THE WEST ON MON/TUE WILL RESULT IN
 DRY AND SEASONALLY WARM SPRING WEATHER WITH LOCALLY GUSTY EASTERLY
 WINDS BELOW THE PASSES AND CANYONS ON MON. THE RIDGE WILL GIVE WAY
 TO A BROAD TROUGH ACROSS THE CONTINENT AGAIN BY WED. ONSHORE FLOW
 WILL ACCELERATE AND THE MARINE LAYER WILL DEEPEN...SENDING LOW
 CLOUDS AND FOG INLAND...AND PULLING MAX DAYTIME TEMPS BACK CLOSER TO
 AVERAGE UNTIL NEXT WEEKEND WHEN SOME RIDGING IS FORECAST TO BUILD
 BACK ACROSS THE SOUTHWEST.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404130452>

2/5

FIGURE A-17
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 2

4/18/2018

IEM :: AFD from NWS SGX

&&

.AVIATION...

130300Z...COAST/VALLEYS...LOW CLOUDS WITH BKN-OVC CIGS 2000-3000 FT MSL AND TOPS TO 3500 FT MSL HAVE RETURNED TO THE COASTAL AREAS AND WILL CONTINUE TO SPREAD INLAND TO THE COASTAL SLOPES AND INLAND EMPIRE OVERNIGHT...OBSCURING HIGHER TERRAIN AND REDUCING VIS WHERE CLOUDS AND TERRAIN INTERSECT. LOW CLOUDS EXPECTED TO BE SOMEWHAT SLOW TO SCATTER OUT SUNDAY MORNING...LIKELY BETWEEN 13/18-20Z.

MTNS/DESERTS...W-NW WINDS 20-30 KT WITH GUSTS 40 KT TO LOCALLY 50 KT BELOW THE BANNING PASS...WILL CREATE MOD-STG UDDFS AND LLWS OVER AND E OF THE MTNS THROUGH SUNDAY MORNING. WINDS WILL RELAX DURING THE DAY SUNDAY BEFORE INCREASING AGAIN FROM THE NORTHEAST LATE SUNDAY NIGHT THROUGH MONDAY MORNING.

&&

.MARINE...

WAVE MODELS INDICATE A 6 TO 8 FOOT SWELL WITH 10 SECOND PERIOD MOVING THROUGH THE OUTER WATERS BRIEFLY WED MORNING. THIS ALONG WITH A LITTLE INCREASE IN THE NW WIND COULD CREATE CHOPPY CONDITIONS FOR BOATERS.

OTHERWISE...NO SIGNIFICANT MARINE WEATHER CONDITIONS ARE EXPECTED THROUGH FRIDAY.

&&

.FIRE WEATHER...

A BRIEF PERIOD OF GUSTY OFFSHORE FLOW WILL DEVELOP ON MONDAY BELOW THE PASSES AND CANYONS AND ALONG THE COASTAL FOOTHILLS...ACCOMPANIED BY MIN RH VALUES OF 10-15 PERCENT. LOCAL WINDS OF 25 TO 35 MPH WITH GUSTS OF 45 TO 55 MPH ARE POSSIBLE IN THE WINDIEST SPOTS WHICH MAY CREATE SEVERAL HOURS OF CRITICAL FIRE WEATHER CONDITIONS MON AFTERNOON.

THE WINDS WILL SUBSIDE RAPIDLY MON EVENING...BUT RH WILL RECOVER ONLY MODESTLY MON NIGHT BEFORE FALLING TO 5-15 PERCENT BY TUE AFTERNOON. IN ADDITION...STRONG ONSHORE WINDS WILL DEVELOP OVER THE RIDGES AND INTO THE DESERTS WHEN CRITICAL THRESHOLDS MAY BE REACHED AGAIN FOR A FEW HOURS LATE IN THE DAY ON THE RIDGES...DESERT SLOPES AND FOOTHILLS AS WESTERLY WIND GUSTS INCREASE TO 30 TO 40 MPH.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404130452>

3/5

FIGURE A-17
AREA FORECAST DISCUSSION APRIL 12, 2014 – PG 3

4/18/2018 IEM :: AFD from NWS SGX

CA...WIND ADVISORY UNTIL 3 AM PDT SUNDAY FOR THE COACHELLA VALLEY...
RIVERSIDE COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN
DIEGO COUNTY MOUNTAINS.

PZ...NONE.

&&

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PUBLIC/FIRE WEATHER...JAD
AVIATION/MARINE...TS

Fig A-17: An Area Forecast Discussion issued by the San Diego NWS office at 0852 pm PST (0952 pm PDT) on Saturday, April 12, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-18
PRELIMINARY LOCAL STORM REPORT APRIL 13, 2014

4/18/2018

IEM :: LSR from NWS SGX

<pre> r 592 NWUS56 KSGX 130943 LSRSGX </pre>			
<pre> PRELIMINARY LOCAL STORM REPORT NATIONAL WEATHER SERVICE SAN DIEGO CA 242 AM PDT SUN APR 13 2014 </pre>			
...TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
...DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
..REMARKS..			
0150 AM	NON-TSTM WND GST 7	ENE CABAZON	33.95N 116.66W
04/13/2014	M64 MPH	RIVERSIDE	CA MESONET
<pre> SUSTAINED WINDS OF 30 MPH OR GREATER SINCE 957 AM PDT SATURDAY MORNING...AND SUSTAINED WINDS OF 40 MPH OR GREATER SINCE 650 PM PDT SATURDAY EVENING. MESONET STATION WHITEWATER RAWS /WWAC1/ </pre>			
&&			
\$\$			
NWS SAN DIEGO CA			
IRIS SYSTEM			

Fig A-18: A Preliminary Local Storm Report issued by the San Diego NWS office at 0142 am PST (0242 am PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-19
PUBLIC INFORMATION STATION APRIL 13, 2014 – PG 1

4/18/2018

IEM :: LLL from NWS SGX

┌
846
NZUS96 KSGX 130951
LLLSGX
CAZ042-043-048-050-055>058-060>062-132150-

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE SAN DIEGO CA
250 AM PDT SUN APR 13 2014

...LATEST WIND REPORTS...

LOCATION	SPEED	TIME/DATE	LAT/LON
EDOM HILL (6 NE PSP)	73 MPH	0750 PM 04/12	33.87N/116.43W
WHITewater RAWS	64 MPH	0150 AM 04/13	33.95N/116.66W
VOLCAN MOUNTAIN	52 MPH	0240 PM 04/12	33.10N/116.58W
WHITE WATER (2 S)	51 MPH	0445 PM 04/12	33.90N/116.64W
THOUSAND PALMS	51 MPH	0955 PM 04/12	33.82N/116.40W
WHITewater	49 MPH	0645 PM 04/12	33.96N/116.59W
BOULEVARD WEST	47 MPH	0230 PM 04/12	32.66N/116.29W
HARRISON PARK	43 MPH	0230 PM 04/12	33.04N/116.56W
OCOTILLO WELLS	42 MPH	0813 PM 04/12	33.15N/116.18W

OBSERVATIONS ARE COLLECTED FROM A VARIETY OF SOURCES WITH VARYING
EQUIPMENT AND EXPOSURE. NOT ALL DATA LISTED ARE CONSIDERED OFFICIAL.

\$\$

NWS SAN DIEGO CA

FIGURE A-19
PUBLIC INFORMATION STATION APRIL 13, 2014 – PG 2

4/18/2018

IEM :: PNS from NWS SGX

128
 NOUS46 KSGX 130959
 PNSSGX
 CAZ042-043-048-050-055>058-060>062-132150-

PUBLIC INFORMATION STATEMENT
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 250 AM PDT SUN APR 13 2014

...STRONGEST WIND GUSTS OVER PAST 18 HOURS...

LOCATION	SPEED	TIME/DATE	LAT/LON	AREA
SKY VALLEY	82 MPH	0400 PM 04/12	33.88N/116.33W	COACHELLA
EDOM HILL	73 MPH	0750 PM 04/12	33.87N/116.43W	COACHELLA
WHITEWATER RAWS	64 MPH	0150 AM 04/13	33.95N/116.66W	COACHELLA
VOLCAN MOUNTAIN	52 MPH	0240 PM 04/12	33.10N/116.58W	SD MTNS
WHITE WATER	51 MPH	0445 PM 04/12	33.90N/116.64W	COACHELLA
THOUSAND PALMS	51 MPH	0955 PM 04/12	33.82N/116.40W	COACHELLA
WHITEWATER	49 MPH	0645 PM 04/12	33.96N/116.59W	COACHELLA
BOULEVARD WEST	47 MPH	0230 PM 04/12	32.66N/116.29W	SD MTNS
HARRISON PARK	43 MPH	0230 PM 04/12	33.04N/116.56W	SD MTNS
OCOTILLO WELLS	42 MPH	0813 PM 04/12	33.15N/116.18W	SD DESERTS

OBSERVATIONS ARE COLLECTED FROM A VARIETY OF SOURCES WITH VARYING
 EQUIPMENT AND EXPOSURE. NOT ALL DATA LISTED ARE CONSIDERED OFFICIAL.

\$\$

NWS SAN DIEGO CA

HARRISON

Fig A-19: A Public Information Station issued by the San Diego NWS office at 0150 am PST (0250 am PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-20

URGENT WEATHER MESSAGE APRIL 13, 2014 – PG 1

4/18/2018

IEM :: NPW from NWS SGX

┌
928
WMUS76 KSGX 131029
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
329 AM PDT SUN APR 13 2014

...STRONG AND GUST WEST TO NORTHWEST WINDS IN THE NORTHERN
COACHELLA VALLEY EARLY THIS MORNING...

.ONSHORE FLOW WILL BRING STRONG GUSTY WEST TO NORTHWEST WINDS TO
NORTHERN AND EASTERN PORTIONS OF THE COACHELLA VALLEY EARLY THIS
MORNING. WINDS WILL SUBSIDE AFTER SUNRISE.

CAZ061-131300-
/O.EXP.KSGX.WI.Y.0029.000000T0000Z-140413T1000Z/
/O.NEW.KSGX.WI.Y.0030.140413T1029Z-140413T1300Z/

COACHELLA VALLEY-
329 AM PDT SUN APR 13 2014

...WIND ADVISORY IN EFFECT UNTIL 6 AM PDT EARLY THIS MORNING...

...WIND ADVISORY HAS EXPIRED...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT UNTIL 6 AM PDT EARLY THIS MORNING.
THE WIND ADVISORY IS NO LONGER IN EFFECT.

* WINDS...AREAS OF WEST TO NORTHWEST WINDS 25 TO 35 MPH WITH GUSTS
TO 55 MPH. ISOLATED GUSTS TO 65 MPH.

* LOCATION...NEAR BANNING PASS AND ALONG AND NORTH OF INTERSTATE
10.

* TIMING...THROUGH EARLY THIS MORNING. WINDS SUBSIDING AFTER SUNRISE.

* VISIBILITY...LOCALLY REDUCED IN BLOWING SAND AND BLOWING DUST.

* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR
MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE LIMBS
AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
PROFILE VEHICLES. USE EXTRA CAUTION.

&&

\$\$

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404131029>

2/4

FIGURE A-20
URGENT WEATHER MESSAGE APRIL 13, 2014 – PG 2

4/18/2018

IEM :: NPW from NWS SGX

CAZ056-058-062-131130-

/O.EXP.KSGX.WI.Y.0029.000000T0000Z-140413T1000Z/

RIVERSIDE COUNTY MOUNTAINS-SAN DIEGO COUNTY MOUNTAINS-

SAN DIEGO COUNTY DESERTS-

329 AM PDT SUN APR 13 2014

...WIND ADVISORY HAS EXPIRED...

THE WIND ADVISORY IS NO LONGER IN EFFECT.

LOCALLY GUSTY WEST WINDS WILL GRADUALLY SUBSIDE THE REST OF TONIGHT PAST
SUNRISE.

\$\$

CURRENT WIND GUST REPORTS ON THE WEB:

[HTTP://WWW.WRH.NOAA.GOV/SGX/GMAP/INDEX.PHP](http://www.wrh.noaa.gov/sgx/gmap/index.php)

FOR A DETAILED MAP OF THE HAZARD:

[WWW.WRH.NOAA.GOV/WRH/WHV/?WFO=SGX](http://www.wrh.noaa.gov/wrh/whv/?wfo=sgx)

17

Fig A-20: An Urgent Weather Message issued by the San Diego NWS office at 0229 am PST (0329 am PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-21
AREA FORECAST DISCUSSION APRIL 13, 2014 – PG 1

4/18/2018

IEM :: AFD from NWS SGX

137
FXUS66 KSGX 131128
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
430 AM PDT SUN APR 13 2014

.SYNOPSIS...

ONSHORE FLOW WILL WEAKEN TODAY AND BECOME BRIEFLY OFFSHORE MONDAY WITH LOWER HUMIDITIES INLAND...GUSTY NORTHEAST WINDS NEAR THE COASTAL FOOTHILLS...AND WARMING TO ABOVE AVERAGE FOR INLAND HIGH TEMPERATURES MONDAY AND TUESDAY. COOLER WITH A RETURN OF THE MARINE LAYER WITH ONSHORE FLOW FOR WEDNESDAY INTO NEXT WEEKEND WITH AREAS OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG. THERE WILL ALSO BE LOCALLY GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS AT TIMES.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

.SHORT TERM (TODAY THROUGH TUESDAY)...

ONSHORE FLOW IS WEAKENING...BUT IS STILL SUFFICIENTLY STRONG EARLY THIS MORNING FOR GUSTS IN THE NORTHERN COACHELLA VALLEY BELOW THE BANNING PASS TO EXCEED 60 MPH. GUSTS ELSEWHERE IN THE MOUNTAINS AND DESERTS ARE LESS THAN 50 MPH. WINDS ARE EXPECTED TO GRADUALLY SUBSIDE PAST SUNRISE. THE MARINE LAYER IS AROUND 3500 FEET DEEP WITH COASTAL LOW CLOUDS EXTENDING INLAND TO THE LOWER COASTAL MOUNTAIN SLOPES. HIGH TEMPERATURES WILL REMAIN A LITTLE BELOW AVERAGE FOR THE COAST AND VALLEYS AND A LITTLE ABOVE AVERAGE FOR THE MOUNTAINS AND DESERTS. FOR MONDAY...HIGH PRESSURE WILL BE NEAR THE WEST COAST...THEN MOVE INLAND AND BEGIN TO WEAKEN TUESDAY. THIS WILL BRING WARMING WEST OF THE MOUNTAINS MONDAY WITH SLIGHT COOLING IN THE DESERTS. SURFACE HIGH PRESSURE WILL BRING GUSTY NORTHEAST WINDS NEAR THE COASTAL FOOTHILLS MONDAY...POSSIBLY NEAR ADVISORY STRENGTH IN THE NORMALLY WINDIER LOCATIONS FOR A TIME MONDAY MORNING. FOR TUESDAY...THE FLOW REVERSES WITH ONSHORE FLOW RETURNING. THIS WILL BRING SLIGHT COOLING NEAR THE COAST WITH GREATER WARMING FARTHER INLAND.

&&

.LONG TERM (WEDNESDAY THROUGH SATURDAY)...

FOR WEDNESDAY AND THURSDAY...A TROUGH OF LOW PRESSURE WILL MOVE INLAND THROUGH THE GREAT BASIN INTO THE ROCKIES. THIS WILL BRING STRONGER ONSHORE FLOW WITH GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS...COOLING...AND A RETURN OF THE MARINE LAYER WITH NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG. FOR FRIDAY AND SATURDAY...A WEAK UPPER LOW PRESSURE SYSTEM OVER THE EASTERN PACIFIC WILL MOVE INLAND THROUGH SOUTHERN CALIFORNIA AND NORTHERN BAJA. THIS WILL MAINTAIN

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404131130>

2/5

FIGURE A-21 AREA FORECAST DISCUSSION APRIL 13, 2014 – PG 2

4/18/2018 IEM :: AFD from NWS SGX

GENERALLY SEASONAL WEATHER.

&&

.AVIATION...

130843Z...COAST/VALLEYS...OVC-BKN STRATUS 35-50 SM INLAND THIS MORNING...WITH BASES 2700-3200 FT MSL AND TOPS 3500-4000 FT MSL...WILL CONTINUE THROUGH 1700 UTC. 1700-2000 UTC...SLOW CLEARING OF STRATUS. 2000-14/0000 UTC...FEW-SCT CLDS 3000-3500 FT MSL BEYOND 5 SM FROM THE COAST...AND BKN-SCT CLDS 3000-3500 FT MSL 0-5 SM INLAND FROM THE COAST. 14/0000-0600 UTC...OVC-BKN STRATUS FORMING WITHIN 30 SM OF THE COAST...BUT LOW CONFIDENCE IN STRATUS MAKING IT INTO THE INLAND EMPIRE...INCLUDING KONT. BASES WILL BE 1000-1500 FT MSL AND TOPS 2000-2500 FT MSL. 14/0600-1200 UTC...STRATUS RETREATING TO 20 SM INLAND OF THE COAST...WITH BASES/TOPS LOWERING TO 700-1200 FT MSL/1500 FT MSL. KONT LIKELY TO START GETTING LLWS BY 14/0900 UTC.

MTNS/DESERTS...SKC AND UNRESTRICTED VIS THROUGH MONDAY MORNING. W TO SW WINDS 20-30 KT WITH GUSTS TO 45 KT ALONG RIDGE-TOPS...THROUGH PASSES/CANYONS...ALONG DESERT SLOPES AND INTO FAVORED DESERT AREAS WILL CREATE MOD-STG UDDFS/LLWS OVER AND E OR NE OF THE MTNS THROUGH 1800 UTC...WITH WEAKER WINDS LEADING TO MAINLY WK-MOD UDDFS 1800-14/0600 UTC.

&&

.MARINE...

WAVE WATCH 3 INDICATES A 6-8 FOOT...10 SECOND PERIOD WEST-NORTHWEST SWELL MOVING THROUGH THE OUTER WATERS LATE TUESDAY THROUGH WEDNESDAY. ALSO...WEST-NORTHWEST WIND GUSTS IN THE OUTER WATERS WILL LIKELY REACH 20 KT AT TIMES DURING THAT PERIOD. ALTHOUGH...THE STRONGER WINDS AND ELEVATED SEAS WILL RESULT IN CHOPPY BOATING CONDITIONS FOR THE OUTER WATERS...A SMALL CRAFT ADVISORY ISSUANCE LOOKS UNLIKELY AT THE MOMENT.

OTHERWISE...NO SIGNIFICANT MARINE WEATHER CONDITIONS ARE EXPECTED THROUGH SATURDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 6 AM PDT EARLY THIS MORNING FOR THE COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS.

PZ...NONE.

&&

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404131130>

3/5

Fig A-21: An Area Forecast Discussion issued by the San Diego NWS office at 0330 am PST (0430 am PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-22
URGENT WEATHER MESSAGE APRIL 13, 2014

4/18/2018

IEM :: NPW from NWS SGX

␣
765
WMUS76 KSGX 131254
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
554 AM PDT SUN APR 13 2014

...STRONG GUSTY WEST WINDS IN THE COACHELLA VALLEY WILL GRADUALLY
DIMINISH THIS MORNING...

.ONSHORE FLOW IS SLOWLY WEAKENING. GUSTY WEST TO NORTHWEST
WINDS IN THE COACHELLA VALLEY WILL GRADUALLY DIMINISH THIS
MORNING.

CAZ061-131400-
/O.CAN.KSGX.WI.Y.0030.000000T0000Z-140413T1300Z/
COACHELLA VALLEY-
554 AM PDT SUN APR 13 2014

...WIND ADVISORY IS CANCELLED...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS CANCELLED THE WIND
ADVISORY.

GUSTY WEST TO NORTHWEST WINDS IN THE COACHELLA VALLEY WILL
GRADUALLY DIMINISH THIS MORNING.

\$\$

17

Fig A-22: An Urgent Weather Message issued by the San Diego NWS office at 0454 am PST (0554 am PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-23 AREA FORECAST DISCUSSION APRIL 13, 2014

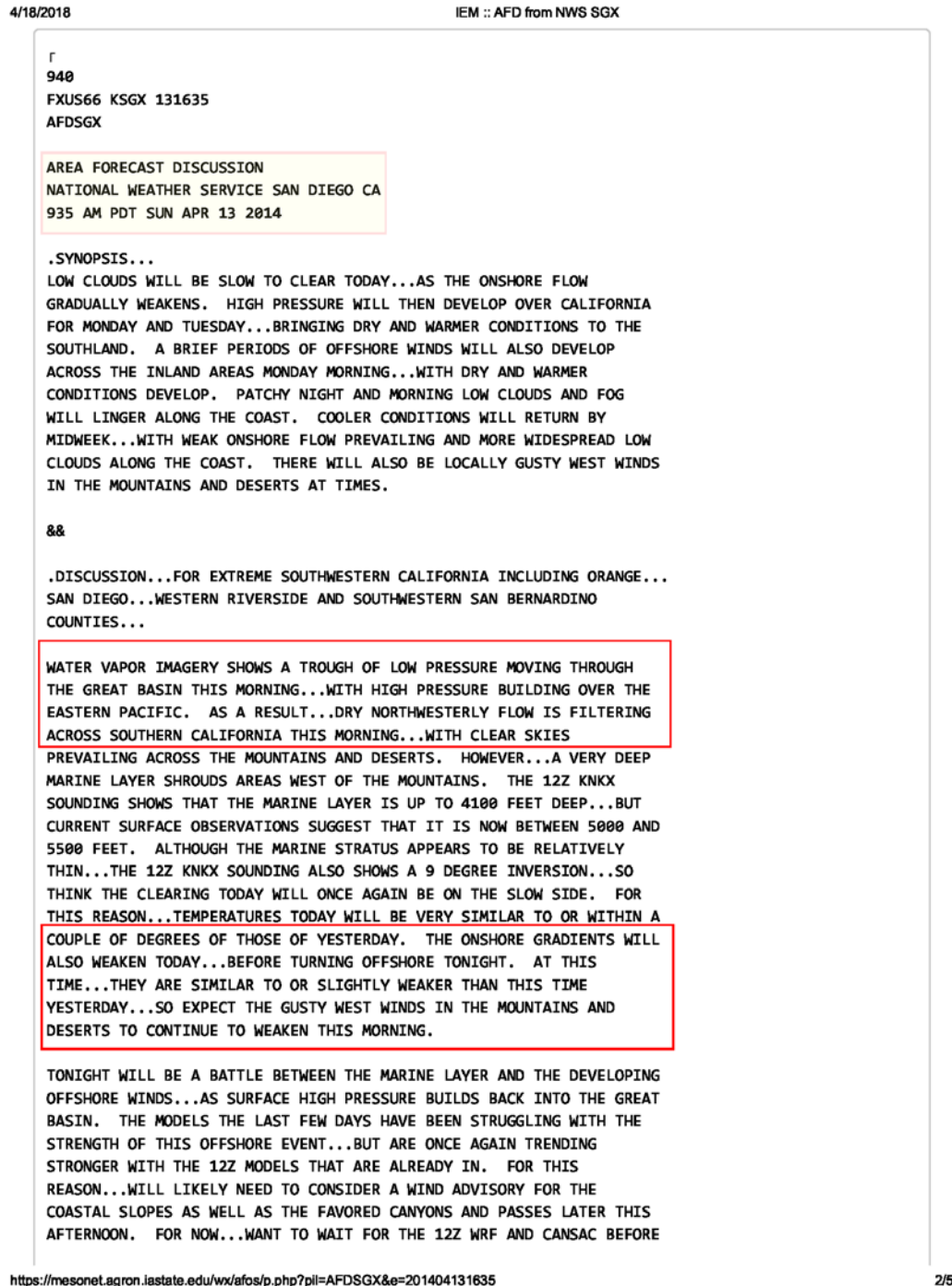


Fig A-23: An Area Forecast Discussion issued by the San Diego NWS office at 0835 am PST (0935 am PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-24 URGENT WEATHER MESSAGE APRIL 13, 2014

4/27/2018

IEM :: NPW from NWS SGX

r
 375
 WWUS76 KSGX 132000
 NPWSGX

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 100 PM PDT SUN APR 13 2014

...GUSTY NORTHEAST TO EAST WINDS WILL DEVELOP LATE TONIGHT AND ON MONDAY...

.SURFACE PRESSURE GRADIENTS WILL TRANSITION FROM ONSHORE TO
 OFFSHORE TONIGHT AS SURFACE HIGH PRESSURE BUILDS INTO THE GREAT
 BASIN. THIS WILL RESULT IN GUSTY NORTHEAST TO EAST WINDS DEVELOPING
 LATE TONIGHT AND CONTINUING THROUGH THE DAY ON MONDAY.

CAZ048-050-055>058-061-140500-
 /O.NEW.KSGX.WI.Y.0031.140414T0900Z-140414T2100Z/
 SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE-
 SAN DIEGO COUNTY VALLEYS-SAN BERNARDINO COUNTY MOUNTAINS-
 RIVERSIDE COUNTY MOUNTAINS-SANTA ANA MOUNTAINS AND FOOTHILLS-
 SAN DIEGO COUNTY MOUNTAINS-COACHELLA VALLEY-
 100 PM PDT SUN APR 13 2014

...WIND ADVISORY IN EFFECT FROM 2 AM TO 2 PM PDT MONDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
 ADVISORY...WHICH IS IN EFFECT FROM 2 AM TO 2 PM PDT MONDAY.

* WINDS...AREAS OF NORTHEAST TO EAST WINDS 20 TO 30 MPH...WITH
 GUSTS TO 50 MPH. OCCASIONAL GUSTS TO 60 MPH WILL BE POSSIBLE AT
 FAVORED LOCATIONS.

* TIMING...INCREASING LATE TONIGHT...PEAKING MONDAY MORNING...THEN
 GRADUALLY DECREASING MONDAY AFTERNOON.

* LOCATION...ALONG THE COASTAL FOOTHILLS OF THE SANTA ANA
 MOUNTAINS...THE SAN BERNARDINO COUNTY MOUNTAINS...THE RIVERSIDE
 COUNTY MOUNTAINS...AND THE SAN DIEGO COUNTY
 MOUNTAINS...INCLUDING PORTIONS OF THE INLAND EMPIRE BELOW THE
 CAJON PASS AND NEAR BANNING. ALONG AND NORTH AND EAST OF
 INTERSTATE 10 IN THE COACHELLA VALLEY.

* VISIBILITY...IN THE DESERTS...REDUCED IN AREAS OF BLOWING SAND
 AND BLOWING DUST.

* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY
 FOR MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN
 TREE LIMBS AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404132000>

2/4

Fig A-24: An Urgent Weather Message issued by the San Diego NWS office at 1200 pm PST (0100 pm PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-25 URGENT WEATHER MESSAGE APRIL 13, 2014

4/27/2018

IEM :: NPW from NWS SGX

r
 521
 WWUS76 KSGX 140444
 NPWSGX

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 944 PM PDT SUN APR 13 2014

...GUSTY NORTHEAST TO EAST WINDS WILL DEVELOP LATE TONIGHT THROUGH MONDAY MORNING...

.SURFACE PRESSURE GRADIENTS WILL ACCELERATE OFFSHORE TONIGHT AS
 SURFACE HIGH PRESSURE BUILDS INTO THE GREAT BASIN. THIS WILL
 RESULT IN GUSTY NORTHEAST TO EAST WINDS DEVELOPING THROUGH MONDAY
 MORNING.

CAZ048-050-055>058-061-141245-
 /O.CON.KSGX.WI.Y.0031.140414T0900Z-140414T2100Z/
 SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE-
 SAN DIEGO COUNTY VALLEYS-SAN BERNARDINO COUNTY MOUNTAINS-
 RIVERSIDE COUNTY MOUNTAINS-SANTA ANA MOUNTAINS AND FOOTHILLS-
 SAN DIEGO COUNTY MOUNTAINS-COACHELLA VALLEY-
 944 PM PDT SUN APR 13 2014

...WIND ADVISORY REMAINS IN EFFECT FROM 2 AM TO 2 PM PDT MONDAY...

A WIND ADVISORY REMAINS IN EFFECT FROM 2 AM TO 2 PM PDT MONDAY.

- * WINDS...AREAS OF NORTHEAST TO EAST WINDS 20 TO 30 MPH...WITH GUSTS TO 50 MPH. OCCASIONAL GUSTS TO 60 MPH WILL BE POSSIBLE AT FAVORED LOCATIONS.
- * TIMING...INCREASING LATE TONIGHT...PEAKING MONDAY MORNING... THEN DECREASING MONDAY AFTERNOON.
- * LOCATION...ALONG THE COASTAL FOOTHILLS OF THE SANTA ANA MOUNTAINS...THE SAN BERNARDINO COUNTY MOUNTAINS...THE RIVERSIDE COUNTY MOUNTAINS...AND THE SAN DIEGO COUNTY MOUNTAINS... INCLUDING PORTIONS OF THE INLAND EMPIRE BELOW THE CAJON PASS AND NEAR BANNING. ALONG AND NORTH AND EAST OF INTERSTATE 10 IN THE COACHELLA VALLEY.
- * VISIBILITY...IN THE DESERTS...LOCALLY REDUCED IN AREAS OF BLOWING SAND AND BLOWING DUST.
- * IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404140444>

2/4

Fig A-25: An Urgent Weather Message issued by the San Diego NWS office at 0844 pm PST (0944 pm PDT) on Sunday, April 13, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-26

URGENT WEATHER MESSAGE APRIL 14, 2014 – PG 1

4/27/2018

IEM :: NPW from NWS SGX

7
 977
 WMUS76 KSGX 140946
 NPWSGX

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 246 AM PDT MON APR 14 2014

...GUSTY NORTHEAST TO EAST WINDS NEAR THE COASTAL FOOTHILLS THROUGH EARLY AFTERNOON...

.SURFACE HIGH PRESSURE WILL BRING GUSTY NORTHEAST TO EAST WINDS
 NEAR THE COASTAL FOOTHILLS THROUGH EARLY AFTERNOON.

CAZ048-050-057-058-142100-
 /O.CAN.KSGX.WI.Y.0031.000000T0000Z-140414T2100Z/
 /O.NEW.KSGX.WI.Y.0032.140414T1300Z-140414T2100Z/
 SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE-
 SAN DIEGO COUNTY VALLEYS-SANTA ANA MOUNTAINS AND FOOTHILLS-
 SAN DIEGO COUNTY MOUNTAINS-
 246 AM PDT MON APR 14 2014

...WIND ADVISORY IN EFFECT FROM 6 AM THIS MORNING TO 2 PM PDT THIS AFTERNOON...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
 ADVISORY...WHICH IS IN EFFECT FROM 6 AM THIS MORNING TO 2 PM PDT
 THIS AFTERNOON.

* WINDS...AREAS OF NORTHEAST TO EAST WINDS 20 TO 30 MPH WITH GUSTS TO 50 MPH. ISOLATED GUSTS TO 60 MPH.

* TIMING...STRENGTHENING AND INCREASING IN COVERAGE THROUGH MID MORNING...THEN SUBSIDING DURING THE AFTERNOON.

* LOCATION...NEAR COASTAL FOOTHILLS AND BELOW PASSES AND CANYONS.

* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY
 FOR MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN
 TREE LIMBS AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS
 THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
 PROFILE VEHICLES. USE EXTRA CAUTION.

&&

\$\$

CAZ055-056-061-141100-

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pii=NPWSGX&e=201404140946>

2/4

FIGURE A-26

URGENT WEATHER MESSAGE APRIL 14, 2014 – PG 2

4/27/2018

IEM :: NPW from NWS SGX

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/O.CAN.KSGX.WI.Y.0031.000000T0000Z-140414T2100Z/
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-
COACHELLA VALLEY-
246 AM PDT MON APR 14 2014

...WIND ADVISORY IS CANCELLED...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS CANCELLED THE WIND
ADVISORY.

LOCALLY GUSTY NORTHEAST WINDS TO 40 MPH THIS MORNING...DIMINISHING
DURING THE AFTERNOON.

$$

CAZ042-142100-
/O.NEW.KSGX.WI.Y.0032.140414T1300Z-140414T2100Z/
ORANGE COUNTY COASTAL AREAS-
246 AM PDT MON APR 14 2014

...WIND ADVISORY IN EFFECT FROM 6 AM THIS MORNING TO 2 PM PDT
THIS AFTERNOON NEAR THE FOOTHILLS...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 6 AM THIS MORNING TO 2 PM PDT
THIS AFTERNOON.

* WINDS...AREAS OF NORTHEAST WINDS 15 TO 25 MPH WITH GUSTS TO 40 MPH.

* LOCATION...NEAR THE FOOTHILLS.

* TIMING...WINDS INCREASING AROUND SUNRISE AND CONTINUING THROUGH
THE MORNING...THEN DIMINISHING DURING THE AFTERNOON.

* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR
MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE
LIMBS AND OTHER DEBRIS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
PROFILE VEHICLES. USE EXTRA CAUTION.

&&

$$

CURRENT WIND GUST REPORTS ON THE WEB:
HTTP://WWW.WRH.NOAA.GOV/SGX/GMAP/INDEX.PHP

FOR A DETAILED MAP OF THE HAZARD:
WWW.WRH.NOAA.GOV/WRH/WHV/?WFO=SGX

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404140946>

3/4

Fig A-26: An Urgent Weather Message issued by the San Diego NWS office at 0146 pm PST (0246 pm PDT) on Monday, April 14, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-27
AREA FORECAST DISCUSSION APRIL 14, 2014

4/27/2018

IEM :: NPW from NWS SGX

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r
167
WWUS76 KSGX 142035
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
135 PM PDT MON APR 14 2014

...WIND ADVISORY EXPIRES AT 2 PM...

CAZ042-048-050-057-058-142145-
/O.EXP.KSGX.WI.Y.0032.000000T0000Z-140414T2100Z/
ORANGE COUNTY COASTAL AREAS-
SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE-
SAN DIEGO COUNTY VALLEYS-SANTA ANA MOUNTAINS AND FOOTHILLS-
SAN DIEGO COUNTY MOUNTAINS-
135 PM PDT MON APR 14 2014

...WIND ADVISORY WILL EXPIRE AT 2 PM PDT THIS AFTERNOON...

THE OFFSHORE FLOW HAS WEAKENED AND MOST LOCATIONS ARE NO LONGER
REPORTING WIND GUSTS OF 45 MPH OR MORE.

$$

PG

```

**IOWA STATE
UNIVERSITY**

College of Ag
Department of Agronomy

Fig A-27: An Urgent Weather Message issued by the San Diego NWS office at 1235 pm PST (0135 pm PDT) on Monday, April 14, 2014. Source: Iowa State University; Iowa Environmental Mesonet at

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201504240455>

FIGURE A-28
ROAD CLOSED DUE TO BLOWING DUST

Palm Springs weather | DesertSun.com | The Desert Sun

Robert Hopwood 5:11 p.m. PDT April 12, 2014



3 CONNECTEMAILMORE

PALM SPRINGS – Indian Canyon has reopened after wind and dust forced its closure Saturday, Palm Springs police announced at 4:15 p.m. Sunday.

Gene Autry Trail at the wash was reopened about 9:45 a.m. Sunday.

About 8:30 p.m., officers received several reports of hazardous road conditions because of blowing sand, according to the Palm Springs Police Department.

Indian Canyon was closed between Garnet Avenue and Tramview Road.

The National Weather Service has issued a wind advisory for the Coachella Valley for Monday, from 2 a.m. to 2 p.m. The winds are expected to range 20 to 30 mph with gusts reaching up to 50 mph, according to the advisory.

Fig A-28: The road closures resulting from the hazardous road conditions brought on by blowing sand confirms the affect upon air quality within the Coachella Valley on April 12, 2014.

FIGURE A-29
IMPERIAL COUNTY ISSUED NO BURN DAY

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Saturday, April 12, 2014

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	70	S-5	10
8 AM	73	SSE-7	10
9 AM	82	SSE-9	10
10 AM	87	S-8	10
11 AM	89	VRBL-5	10
NOON	91	VRBL-3	10
1 PM	94	S-6	10
2 PM	96	SE-14G20	10
3 PM	96	E-10	10
4 PM	96	E-9	10
5 PM	95	W-7	10
6 PM	89	W-13	10
7 PM	85	W-17	10

Max. Temperature yesterday was 96 degrees

Today's Mt. Signal Visibility at 7:30 AM YES NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 87-92

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	-	<u>9:00</u>
Forecast of Maximum Mixing Height	-	<u>9,735</u> feet
Forecast for Morning surface winds	<u>W-10-20</u> mph	<u>W-10-20</u> mph
Forecast for afternoon surface winds	<u>W-20-30</u> mph	<u>W-20-30</u> mph
Forecast for evening surface winds	<u>W-20-30</u> mph	
Forecast 10 AM - 3 PM transport winds	<u>W-20-30</u> mph	

Comments/Complaints: GUSTS UP TO 35 MPH

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day X

Total actually burned today _____ acres Crops burned _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig A-29: Is a copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on April 12, 2014

FIGURE A-30
TIMES OF SAN DIEGO GUSTY WIND COVERAGE

The screenshot shows the Times of San Diego website interface. At the top, there are navigation links: ABOUT, STAFF, CONTACT, ADVERTISE, FAQ, PRIVACY POLICY, and TERMS OF SERVICE. Below these is a search bar and a menu with categories: ALL, POLITICS, CRIME, BUSINESS, SPORTS, EDUCATION, ARTS, MILITARY, TECH, and LIFE. A banner for 'LATEST NEWS' features a headline about San Diego spending \$6.5 million on temporary shelters. The main article is titled 'Gusty Winds Expected Overnight in Mountains, Valleys of Region' and is posted by Chris Jennewein on April 13, 2014. It includes a quote from the National Weather Service about a wind advisory and a link to subscribe to the newsletter. The article is attributed to City News Service.


Home » Life » This Article

Gusty Winds Expected Overnight in Mountains, Valleys of Region

POSTED BY CHRIS JENNEW EIN ON APRIL 13, 2014 IN LIFE | 5 VIEWS | 0 COMMENTS | [LEAVE A COMMENT](#)

Share This Article:

Gusty winds are expected to develop in San Diego County's valleys and mountains early Monday morning and stick around into the start of the workweek.



A [National Weather Service](#) wind advisory is set for 2 a.m. to 2 p.m. Monday. Winds of 20 to 30 mph with gusts of up to 50 mph will be possible in the mountains and valleys during the advisory period.

"Surface pressure gradients will transition from onshore to offshore tonight as surface high pressure builds into the Great Basin," the weather service advisory said. "This will result in gusty northeast to east winds developing late tonight and continuing through the day on Monday."

Winds speeds are expected to peak Monday morning, and gradually decrease Monday afternoon, according to the NWS.

Forecasters said the winds could make for difficult driving conditions, especially for motorists in high profile vehicles. Drivers were advised to be on the lookout for broken tree limbs and other debris.

— *City News Service*

GUSTY WINDS EXPECTED OVERNIGHT IN MOUNTAINS, VALLEYS OF REGION was last modified: April 13th, 2014 by Chris Jennewein

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Fig A-30: An excerpt from Times of San Diego posted on April 13, 2014 confirms the reinstated wind advisory for northerly winds.

Source: <https://timesofsandiego.com/life/2014/04/13/gusty-winds-expected-overnight-mountains-valleys-region/>

FIGURE A-31
IMPERIAL COUNTY ISSUED LIMITED BURN DAY

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Sunday, April 13, 2014

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	66	VRBL-3	10
8 AM	67	W-13	10
9 AM	71	W-14	10
10 AM	76	W-17G29	10
11 AM	82	WSW-18	10
NOON	85	SW-16	10
1 PM	89	NW-12G21	10
2 PM	88	WSW-22G28	10
3 PM	87	WSW-24G32	10
4 PM	86	WSW-23G37	10
5 PM	83	WSW-25G36	10
6 PM	80	WSW-24G32	10
7 PM	75	WSW-23G35	10

Max. Temperature yesterday was 88 degrees

Today's Mt. Signal Visibility at 7:30 AM YES NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 88-93

Local Forecast (Issued 8 AM Local) Computer Forecast (RUC 40KM 12Z)

Est. Time Mixing Height reaches 3000 feet	-	10:00
Forecast of Maximum Mixing Height	- feet	8,910 feet
Forecast for Morning surface winds	W-10-15 mph	W-10-15 mph
Forecast for afternoon surface winds	W-10-15 mph	W-10-15 mph
Forecast for evening surface winds	W-10-15 mph	
Forecast 10 AM - 3 PM transport winds	W-10-15 mph	

Comments/Complaints: _____

Burn Hours 10-3 PM ARB No Burn Day _____ District called No Burn Day _____

Total actually burned today _____ acres Crops burned _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig A-31: Is a copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "Limited Burn" day on April 13, 2014

FIGURE A-32
IMPERIAL COUNTY AFFIDAVIT OF 30 PUBLIC NOTICE

AFFIDAVIT OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk* of the printer of the

Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

01/04.

all in the year 2017

I certify (or declare) under penalty of perjury that the foregoing is true and correct.



SIGNATURE

Name of Account: I C AIR POLLUTION
 CONTROL
 Order Number: 11006865
 Ad Number: 31204312

* Printer, Foreman of the Printer, or Principal Clerk of the Printer
 Date: 4 th day of January, 2017.
 at El Centro, California.

This space is for the County Clerk's
 Filling Stamp:

**NOTICE OF AVAILABILITY
 OF THE DEMONSTRATION OF THE OCCURRENCE
 OF TWO EXCEPTIONAL EVENTS (EE) FOR
 MARCH AND APRIL 2014**

The Imperial County Air Pollution Control District (Air District) has prepared two Draft Exceptional Event (EE) Demonstrations which support the requested exclusion of the measured concentrations at the Brawley and Niland monitors on March 17, March 26, a combined March 30 and April 1, April 12 and 13, and April 25 and 26. (See below).

March 17, 2014
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 190.9 ug/m3

March 26, 2014
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 375.3 ug/m3
 Niland 24 hr concentration from the Federal Equivalent Method BAM monitor of 279.7 ug/m3

March 30 and April 01, 2014
 Brawley 24 hr concentration from the Federal Reference Method monitor of 220 ug/m3
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 160.5 ug/m3

April 12 and April 13, 2014
 Niland 24 hr concentration from the Federal Equivalent Method BAM monitor of 167.5 ug/m3
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 166.8 ug/m3

April 25 and April 26, 2014
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 185.4 ug/m3
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 313.3 ug/m3

The public and all interested parties are encouraged to review and comment on the Draft EE's for March 17, March 26, March/April 30-01, April 12-13, and April 25-26 of 2014 which provide the supporting evidence that on the days indicated in March and April of 2014 the Brawley and Niland monitors were impacted by elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM10) caused by winds which followed weather systems that impacted Riverside, Imperial and San Diego counties. The Draft EE Demonstrations provide the scientific justification for the requested exclusions. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is February 3, 2017 by close of business.

The Draft EE's for March and April of 2014 are available for download at the Air District website at www.co.imperial.ca.us, under "Air Pollution". To view the Draft EE demonstrations, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and ask for Monica N. Soucier.

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Fig A-32: Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for April 12, 2014 and April 13, 2014. The date for closing comments was February 3, 2017

FIGURE A-33
IMPERIAL COUNTY COMMENTS
REGARDING THE APRIL 12, 2014 AND APRIL 13, 2014 EE DEMONSTRATION

No Comments were received during the 30 day public review period